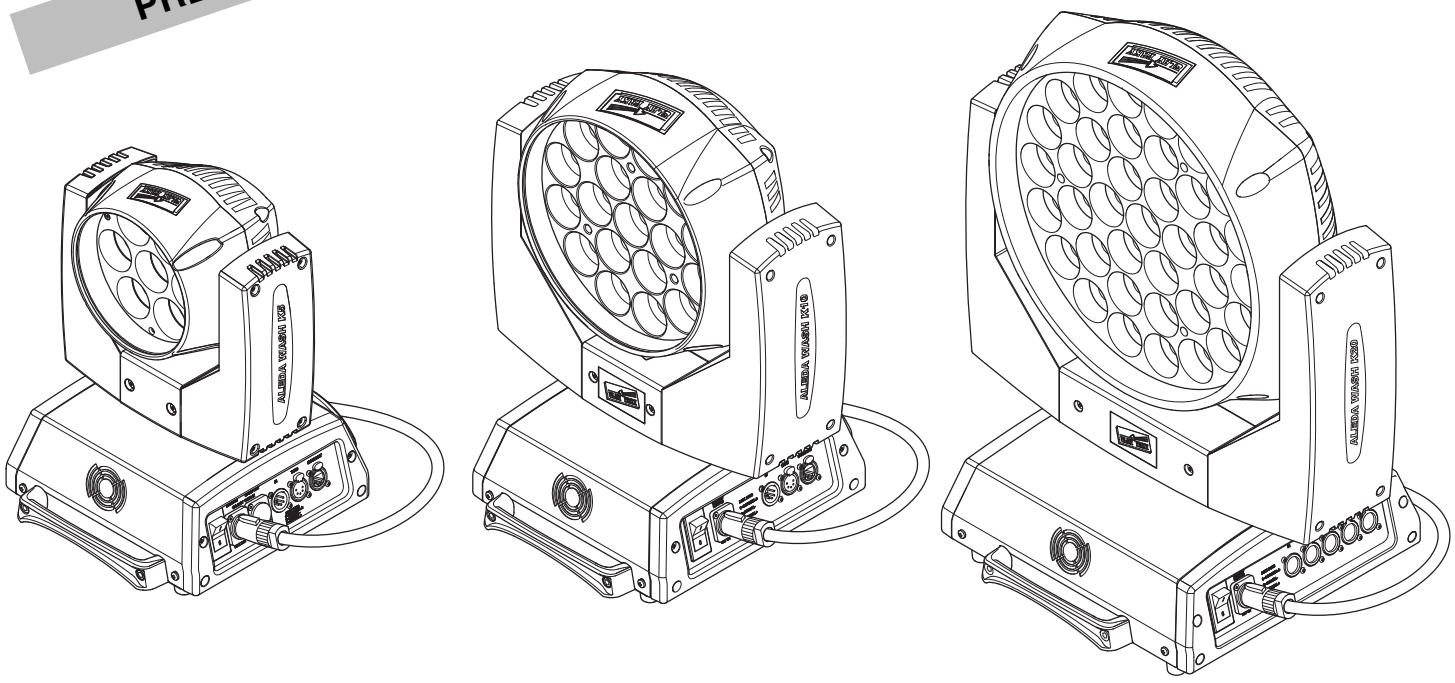
ENGLISH

www.claypaky.it

A.LEDA WASH K5 C61401
A.LEDA WASH K10 C61405
A.LEDA WASH K20 C61410

INSTRUCTION MANUAL

PRELIMINARY



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Congratulations on choosing a Clay Paky product!
We thank you for your custom.
Please note that this product, as all the others in the rich Clay Paky range, has been designed and made with total quality to ensure excellent performance and best meet your expectations and requirements.

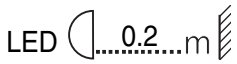
Carefully read this instruction manual in its entirety and keep it safe for future reference. It is essential to know the information and comply with the instructions given in this manual to ensure the fitting is installed, used and serviced correctly and safely.

CLAY PAKY S.p.A. disclaims all liability for damage to the fitting or to other property or persons deriving from installation, use and maintenance that have not been carried out in conformity with this instruction manual, which must always accompany the fitting.

CLAY PAKY S.p.A. reserves the right to modify the characteristics stated in this instruction manual at any time and without prior notice.

SAFETY INFORMATION

• Installation
Make sure all parts for fixing the projector are in a good state of repair.
Make sure the point of anchorage is stable before positioning the projector.
The safety chain must be properly hooked onto the fitting and secured to the framework, so that, if the primary support system fails, the fitting falls as little as possible.
If the safety chain gets used, it needs to be replaced with a genuine spare.



• Minimum distance of illuminated objects
The projector needs to be positioned so that the objects hit by the beam of light are at least 0.20 metres (8”) from the lens of the projector.

• Minimum distance from flammable materials
The projector must be positioned so that any flammable materials are at least 0.20 metres (8”) from every point on the surface of the fitting.

• Mounting surfaces
It is permissible to mount the fitting on normally flammable surfaces.

t_a 40°C

• Maximum ambient temperature
Do not operate the fixture if the ambient temperature (Ta) exceeds 40° C (104° F).

IP20

• IP20 protection rating
The fitting is protected against penetration by solid bodies of over 12mm (0.47”) in diameter (first digit 2), but not against dripping water, rain, splashes or jets of water (second digit 0).

• Protection against electrical shock
Connection must be made to a power supply system fitted with efficient earthing (**Class I** appliance according to standard EN 60598-1).
It is, moreover, recommended to protect the supply lines of the projectors from indirect contact and/or shorting to earth by using appropriately sized residual current devices.

• Connection to mains supply
Connection to the electricity mains must be carried out by a qualified electrical installer.
Check that the mains frequency and voltage correspond to those for which the projector is designed as given on the electrical data label.
This label also gives the input power to which you need to refer to evaluate the maximum number of fittings to connect to the electricity line, in order to avoid overloading.

t_c 90°C

• Temperature of the external surface
The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is 90°C (194°F).

• Maintenance
Before starting any maintenance work or cleaning the projector, cut off power from the mains supply.

LiFePO4

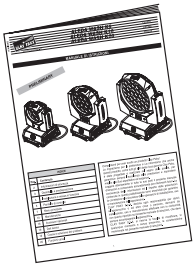
• Battery
This product contains a rechargeable lead-acid battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force. Instructions on how to remove the battery from the product are available on **www.claypaky.it**

CE

The products referred to in this manual conform to the European Community Directives to which they are subject:
• Low Voltage 2006/95/CE
• Electromagnetic Compatibility 2004/108/CE

UNPACKING AND PREPARATION

1



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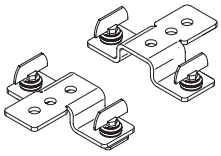

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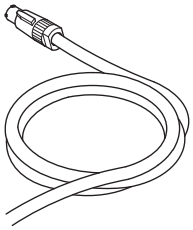
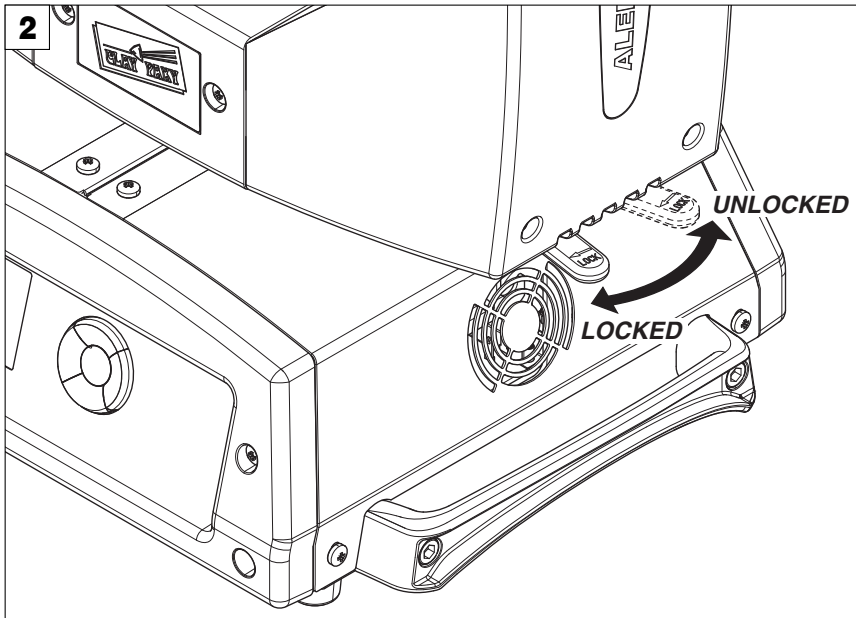
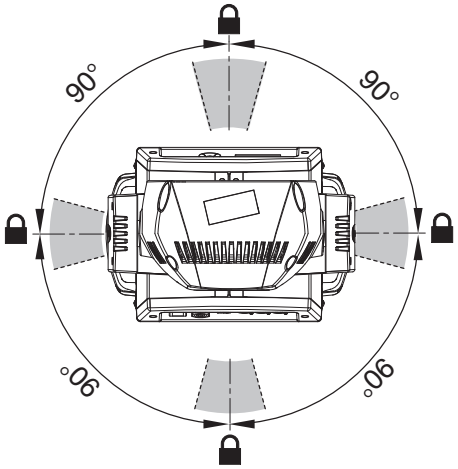


Packing contents - Fig. 1

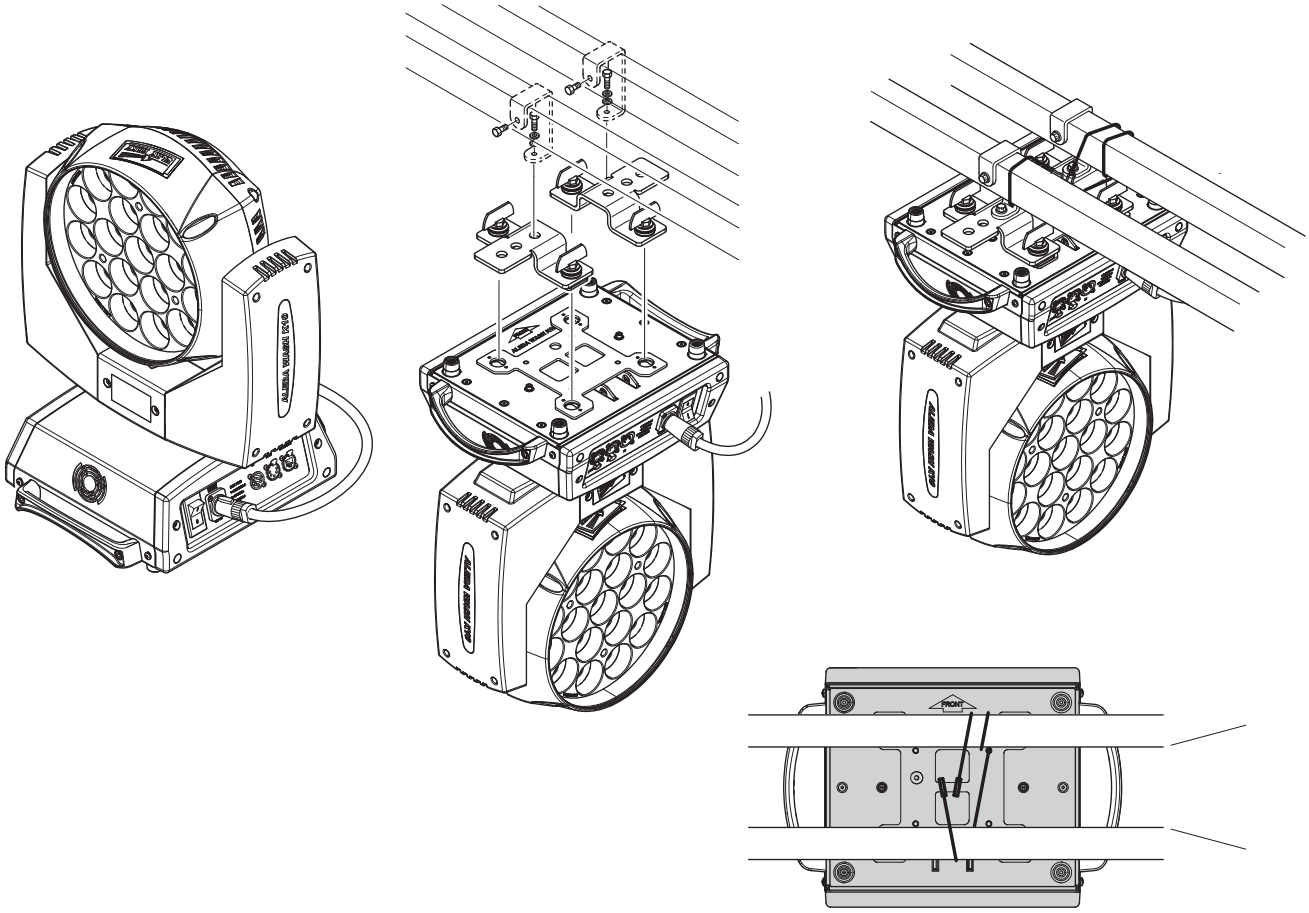
2





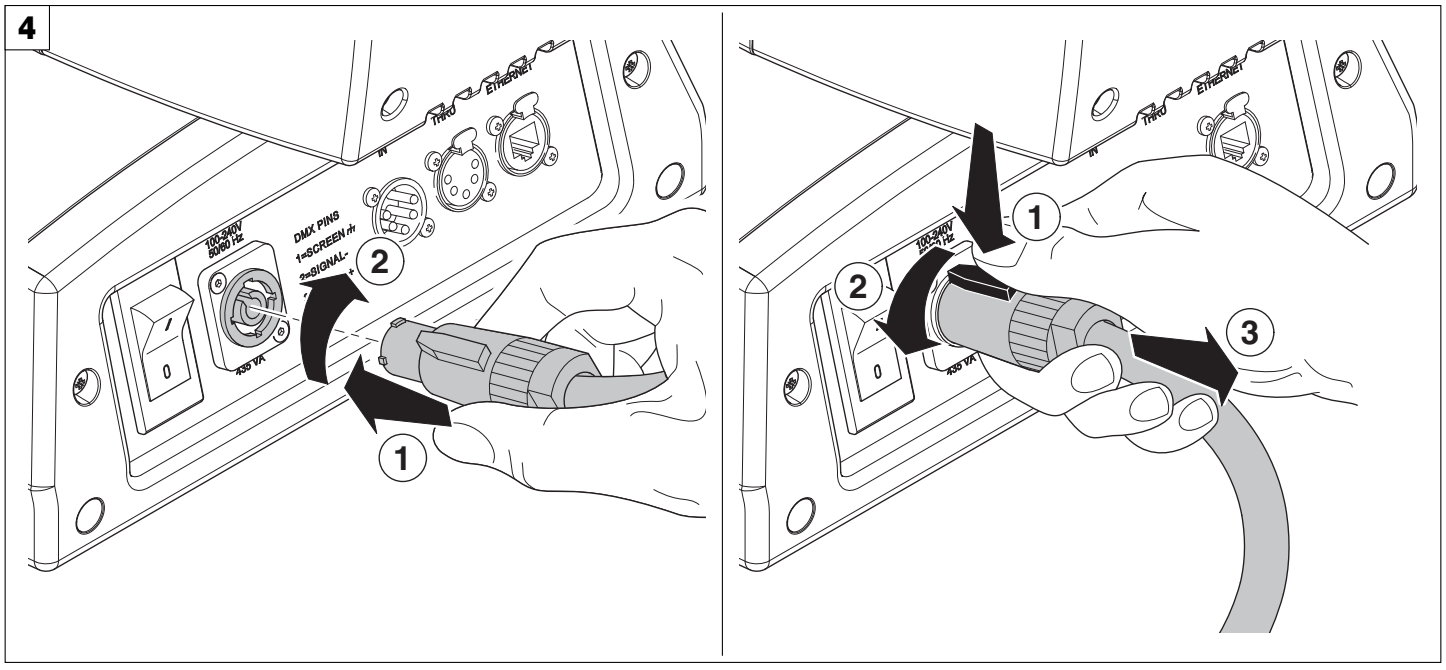
PAN Mechanism Lock and Release (every 90°) - Fig. 2

3



Installing the projector - Fig. 3
The projector can be installed on the floor resting on special rubber feet, on a truss or on the ceiling or wall.
WARNING: ***with the exception of when the projector is positioned on the floor, the safety cable must be fitted. (Cod. 105041/003 available on request). This must be securely fixed to the support structure of the projector and then connected to the fixing point at the centre of the base.***

4



Connecting and disconnecting power cable - Fig. 4

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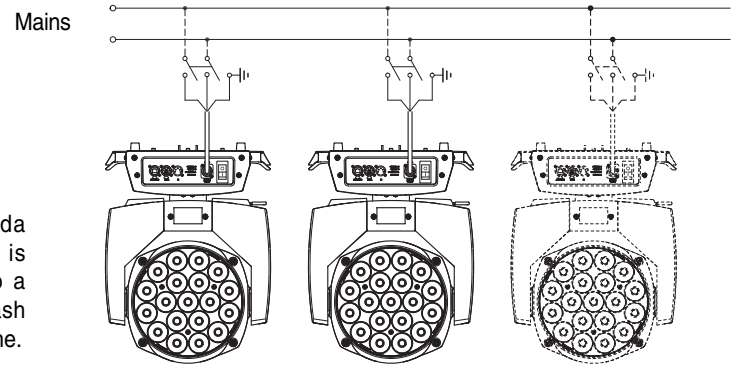
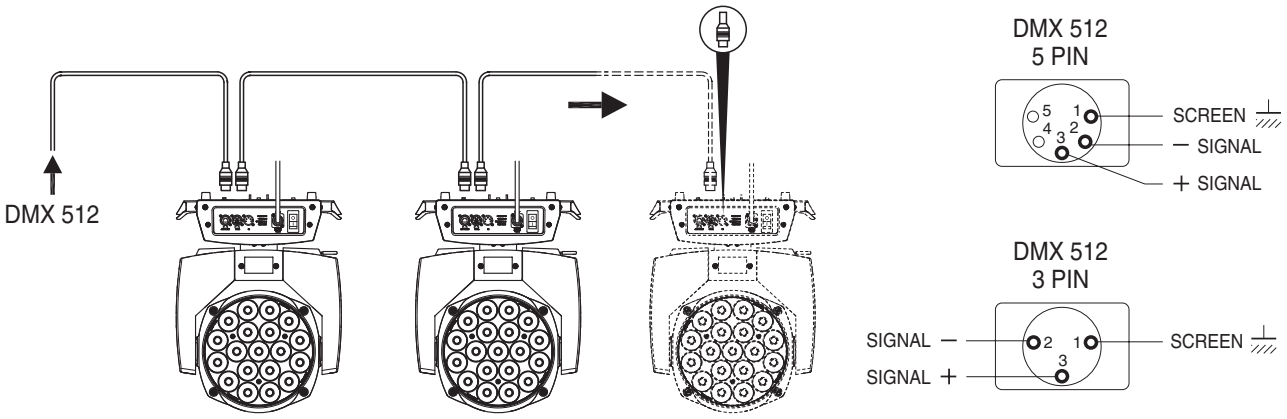


NB: connecting one “A.leda Wash K5” to the mains, it is possible to connect up to a maximum of 11 “A.leda Wash K5” in parallel at the same time.

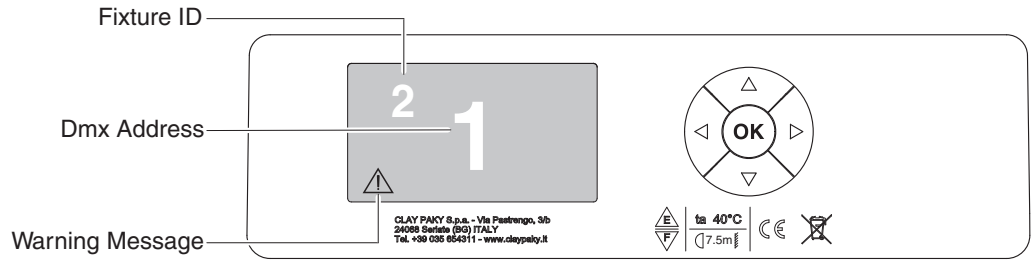
Connecting to the mains supply - Fig. 5

6



Connecting to the control signal line (DMX) - Fig. 6
Use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 120Ohm characteristic impedance, 22-24 AWG, low capacity. Do not use microphone cable or other cable with characteristics differing from those specified. The end connections must be made using XLR type 3 or 5-pin male/female connectors. A terminating plug must be inserted into the last projector with a resistance of 120Ohm (minimum 1/4 W) between terminals 2 and 3.
IMPORTANT: The wires must not make contact with each other or with the metal casing of the connectors. The casing itself must be connected to the shield braid and to pin 1 of the connectors.

7



Switching on the projector - Fig. 7
Press the switch. The projector starts resetting the effects. At the same time, the following information scrolls on the display:

CLAY PAKY	**Model** **A.leda Wash**	**Firmware** **Version X.X.X** **Date - Hour**	**xxx (Fixture ID)** **Dmx Address xxx**	**System errors** **E: .....** **W: .....

On conclusion of resetting in case of absence of the dmx signal, Pan and Tilt move to the “Home” position (Pan 50% - Tilt 50%). The control panel (Fig. 7) has a display and buttons for the complete programming and management of the projector menu. The display can be in one of two conditions: rest status and setting status. When it is in the rest status, the display shows the projector’s DMX address and the Fixture ID address (if set).
During menu setting status, after a wait time (about 30 seconds) without any key having been pressed, the display automatically returns to rest status. It should be noted than when this condition occurs, any possible value that has been modified but not yet confirmed with the OK key will be cancelled.

Continue →

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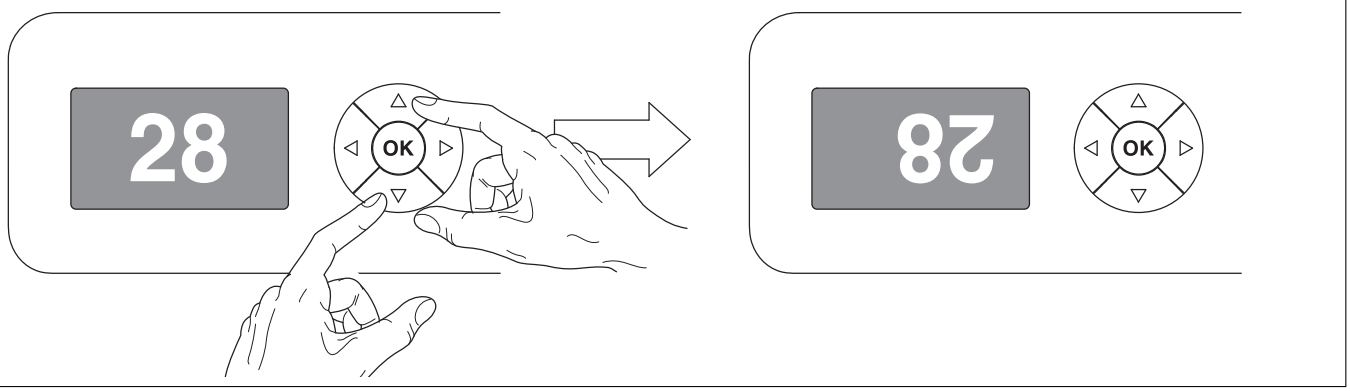


Reversal of the display - Fig. 8

To activate this function, press UP ⊕ and DOWN ⊖ keys simultaneously while the display is in the rest mode. This status will be memorised and maintained even for the next time it will be switched on. To return to the initial state, repeat the operation all over again.

Setting the projector starting address

On each projector, the starting address must be set for the control signal (addresses from 1 to 512).

The address can also be set with the projector switched off.

Setting the address: see pag. 8.

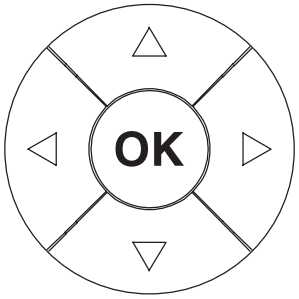
Setting the projector Fixture ID

On each projector, the Fixture ID address must be set for an easy identification of the fixtures in an installation (ID from 1 to 255).

The Fixture ID address can be set with the projector switched off.

Setting the Fixture ID: see pag. 8.

Functions of the buttons - Using the menu



OK	Confirms the displayed value, or activates the displayed function, or enters the successive menu.
DOWN	Decreases the value displayed (with auto-repetitions) or passes to the next item in the menu.
UP	Increases the value displayed (with auto-repetitions) or passes to the previous item in a menu.
LEFT	Return to the top level.
RIGHT	Commute from units, tens, hundreds, in the "Address", "Fixture ID" and "Calibration" menù.

USING THE MENU:

1) Press OK once – “Main Menu” appears on the display.
2) Use the UP ⊕ and DOWN ⊖ keys to select the menu to be used:
   - Setup (Setup Menu): To set the setting options.
   - Option (Option Menu): To set the operating options
   - Informations (Informations Menu): To read the counters, software version and other information.
   - Manual Control (Manual control Menu): To trigger the test and manual control functions.
   - Test (Test Menu): To check the proper functionning of effects
   - Advanced (Advanced Menu): Access to the "Advanced menu" is recommended for a trained technical personnel.

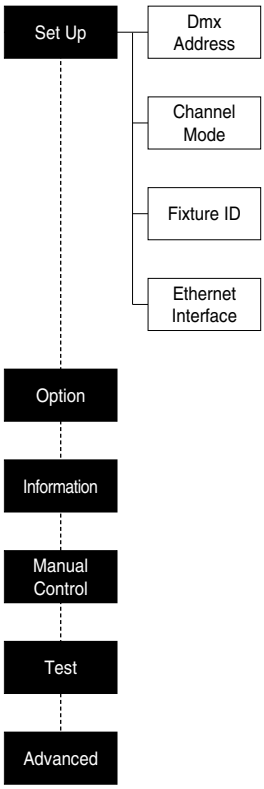
   To enable the "Advanced" see pag.13
3) Press OK to display the first item in the selected menu.
4) Use the UP ⊕ and DOWN ⊖ keys to select the MENU items.

Setting addresses and options with the projector disconnected

The projector’s DMX address, as well as other possible operating options, can also be set when the appliance is disconnected from the electricity supply. All that is needed is to press OK to momentarily activate the display and thus access the settings. Once the required operations have been carried out, the display will switch off again after a wait time of 30 seconds.

MENU SETTING

1



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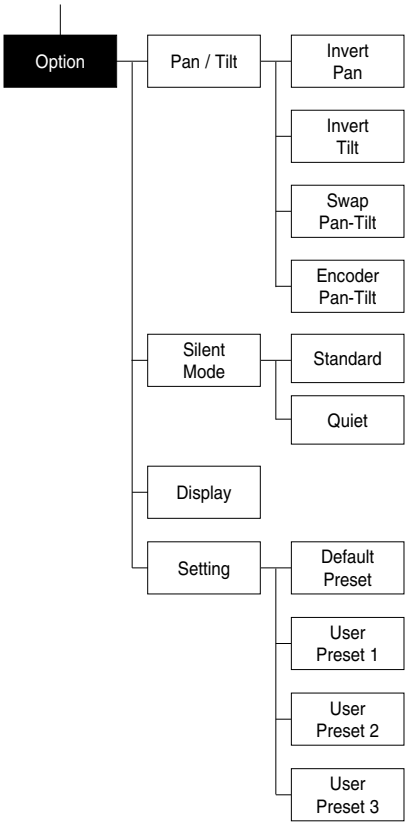

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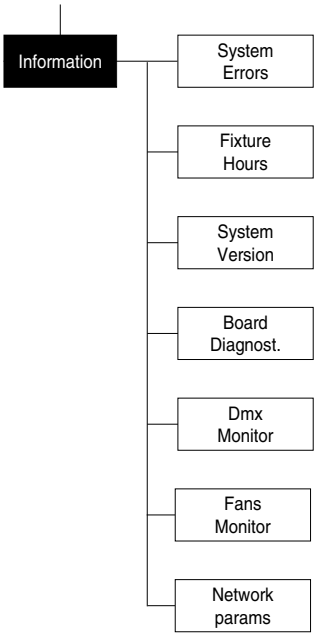

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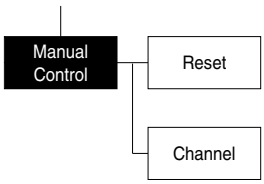

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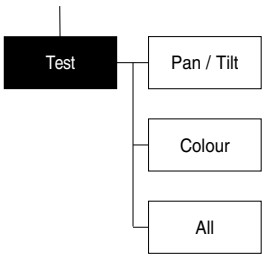

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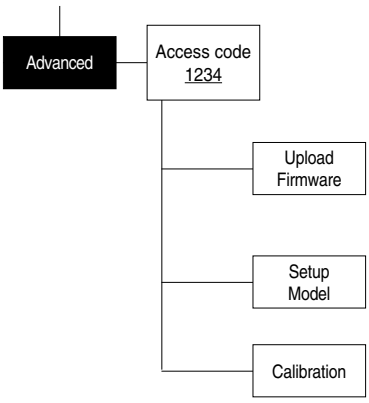

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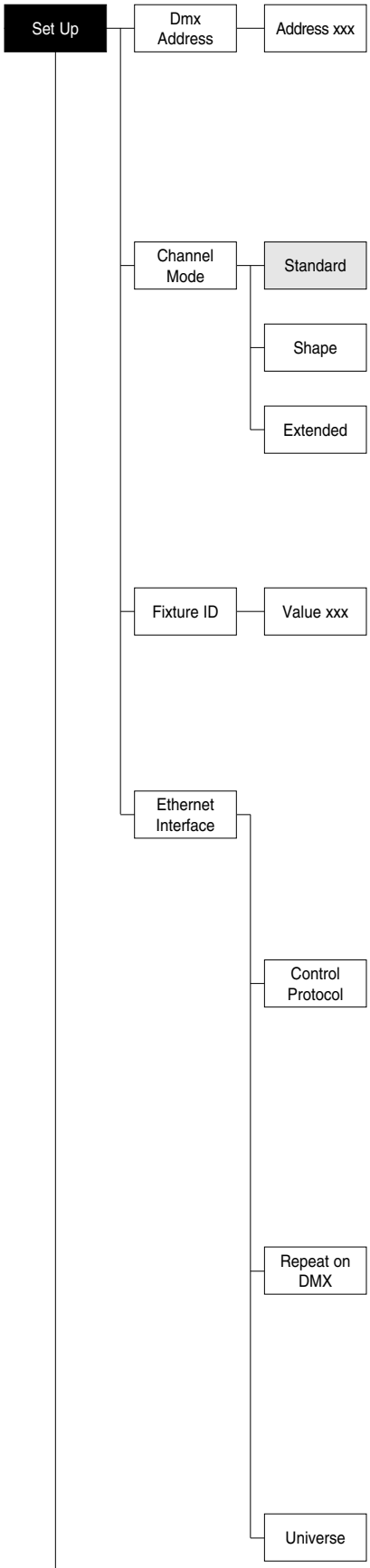
NOTE: On grey the default options



SET UP MENU

DMX ADDRESS

NOTE: without the DMX signal the Address (XXX) flashing

Allows you to select the DMX ADDRESS.

1) Press OK - the current DMX Adress appear on the display.
2) Use the UP ▲ and DOWN ▼, RIGHT ▶ keys to plan the DMX Address.
3) Press OK to confirm the selection or LEFT ◀ to keep current settings.

CHANNEL MODE

Allows you to select a channel arrangement from the two available.

1) Press OK - the current settings appear on the display (Standard or Vector).
2) Use the UP ▲ and DOWN ▼ keys to select one of the following settings:
   - **Standard**
   - **Shape**
   - **Extended**
3) Press OK to confirm the selection or LEFT ◀ to keep current settings.

FIXTURE ID

Allows you to select the FIXTURE ID.

1) Press OK - the current Fixture ID appear on the display.
2) Use the UP ▲, DOWN ▼, RIGHT ▶ keys to plan the Fixture ID.
3) Press OK to confirm the selection or LEFT ◀ to keep current settings.

ETHERNET INTERFACE

It lets you set the Ethernet settings to be attributed to the projector.

1) Premere OK.
2) Use the UP ▲ and DOWN ▼ keys to select the “Ethernet Interface” options to set:

Control Protocol

It lets you select the “Control Protocol” Art-net to assign according to the control unit used:

1) Press OK the current setting appears on the display.
2) Use the UP ▲ and DOWN ▼ keys to select one of the following settings:
   - **Disabled**
   - **Art-net on IP 2**
   - **Art-net on IP 10**
3) Press OK to confirm the selection or LEFT ◀ to keep the current setting.

Repeat on DMX

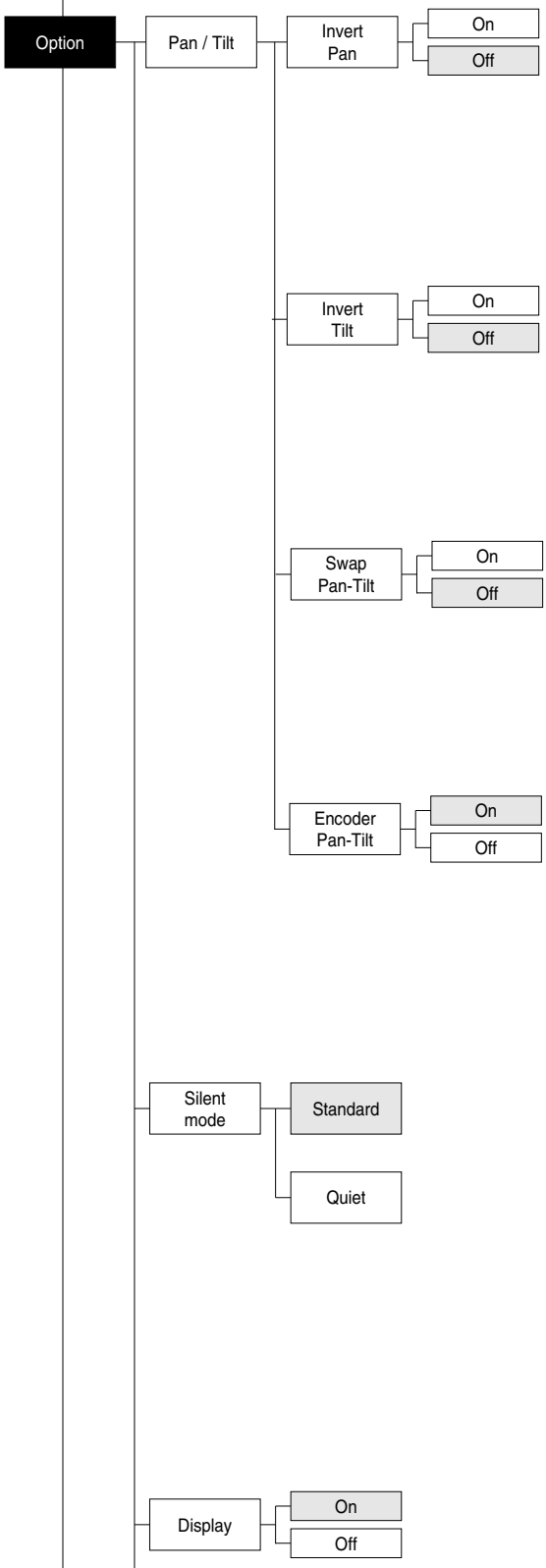
It lets you enable the transmission of the Ethernet protocol by DMX signal to all the connected projectors.

1) Press OK the current setting appears on the display.
2) Use the UP ▲ and DOWN ▼ keys to select one of the following settings:
   - **Disabled:** DMX transmission disabled.
   - **Enabled on primary:** DMX transmission enabled.
3) Press OK to confirm the selection or LEFT ◀ to keep the current setting.

Universe

It lets you assign the “Universe” number to be assigned to a series of projectors.

1) Press OK – the current Universe address appears on the display.
2) Use the UP ▲, DOWN ▼, RIGHT ▶ keys to set the Universe address.
3) Press OK to confirm the selection or LEFT ◀ to keep the current setting.



OPTIONS MENU

PAN / TILT

Invert pan

Used for reversing Pan movement.

1) Press OK - the current settings appear on the display (On or Off).
2) Use the UP ▲ and DOWN ▼ keys to enable (On) or disable (Off) PAN inversion.
3) Press OK to confirm the selection or LEFT ◀ to keep current settings.

Invert tilt

Used for reversing tilt movement.

1) Press OK - the current settings appear on the display (On or Off).
2) Use the UP ▲ and DOWN ▼ keys to enable (On) or disable (Off) Tilt inversion.
3) Press OK to confirm the selection or LEFT ◀ to keep current settings.

Swap Pan-Tilt

Used for swapping Pan and Tilt channels (as well as Pan fine and Tilt fine).

1) Press OK - the current settings appear on the display (On or Off).
2) Use the UP ▲ and DOWN ▼ keys to enable (On) or disable (Off) Pan and Tilt channel swap.
3) Press OK to confirm the selection or LEFT ◀ to keep current settings.

Encoder Pan-Tilt

Used for enabling the Pan / Tilt encoders.

1) Press OK - the current settings appear on the display (On or Off).
2) Use the UP ▲ and DOWN ▼ keys to enable (On) or disable (Off) Pan / Tilt encoders.
3) Press OK to confirm the selection or LEFT ◀ to keep current settings.

SILENT MODE

It lets you select the “Silent Mode” from the two available.

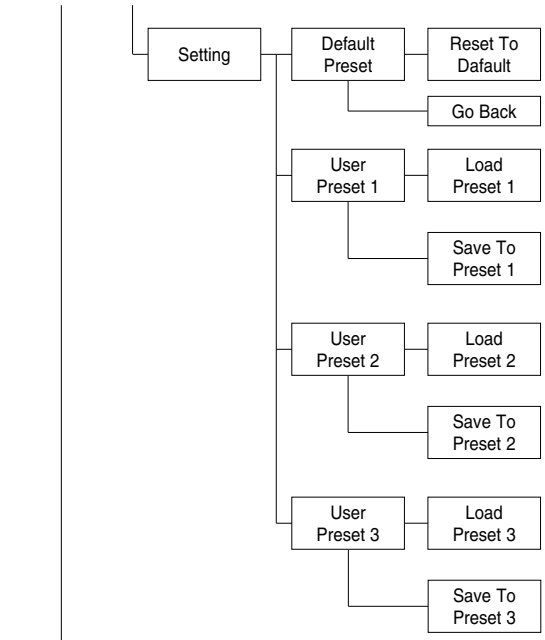
1) Press OK the current setting appears on the display.
2) Use the UP ▲ and DOWN ▼ keys to select one of the following settings:
   Standard: Maximum speed and consequently maximum effects noise level.
   Quiet: reduces the speed of some effects, thereby reducing their noise level.
3) Press OK to confirm the selection or LEFT ◀ to keep the current setting.

DISPLAY

Used for automatically reduce brightness on the display after about 30 seconds in idle.

1) Press OK - the current settings appear on the display (On or Off).
2) Use the UP ▲ and DOWN ▼ keys to enable (On) or disable (Off) the decreasing of display brightness.
3) Press OK to confirm the selection or LEFT ◀ to keep current settings.

Continue ➔



SETTING

Used to save 3 different settings of the items in the options menu and relative submenus.

1) Press (OK) - "Default preset" appears on the display.
2) Use the UP (▲) and DOWN (▼) keys to select one of the following configurations:
   - Default preset (*)
   - User preset 1
   - User preset 2
   - User Preset 3
3) Press (OK) - "Load preset X" appears on the display.
4) Use the UP (▲) and DOWN (▼) keys to select:
   - Load preset X to recall a previously stored configuration.
   - Save to preset X to store the current configuration.
   a confirmation message (Are you sure?) appears on the display.
5) Select YES to confirm the selection or NO to keep the current setting and return to the next higher level.

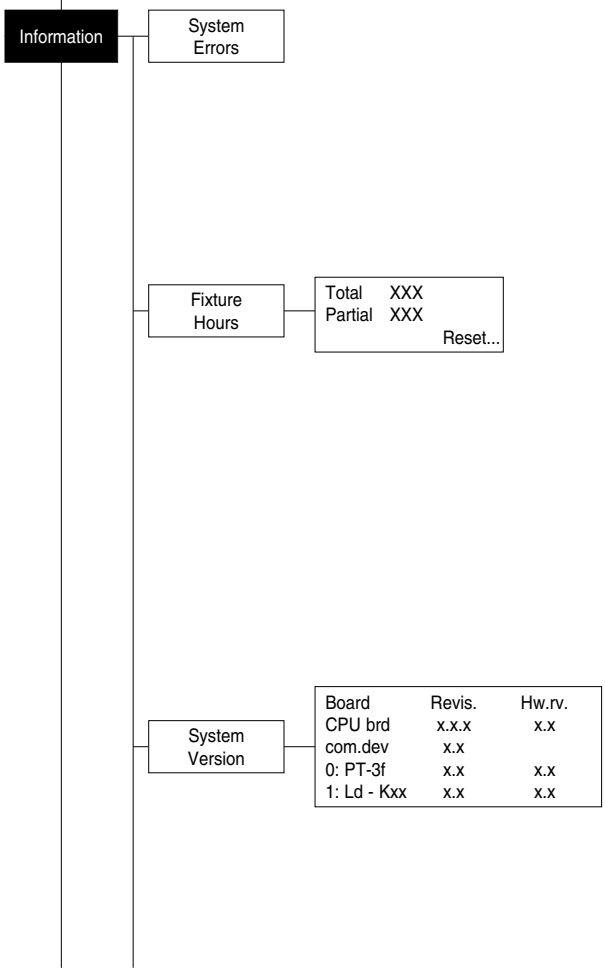
(*) DEFAULT PRESET

Used for restoring default values on all options menu items and relevant submenus.

1) Press (OK), a confirmation message (Are you sure?) appears on the display.
2) Select YES to confirm the selction or NO to keep current setting.

OPTION	DEFAULT
Invert Pan	Off
Invert Tilt	Off
Swap Pan-Tilt	Off
Encoder Pan-Tilt	On
Display	On

INFORMATION MENU



SYSTEM ERRORS

Shows a list of warnings and messages relevant to errors occurred since the fixtures switching-on.

1) Pressing (OK) you are allowed to reset the SYSTEM ERRORS list. A confirmation message (Are you sure you want to clear error list ?) appears on the display.
2) Select YES to reset the list or NO to go back.

FIXTURE HOURS

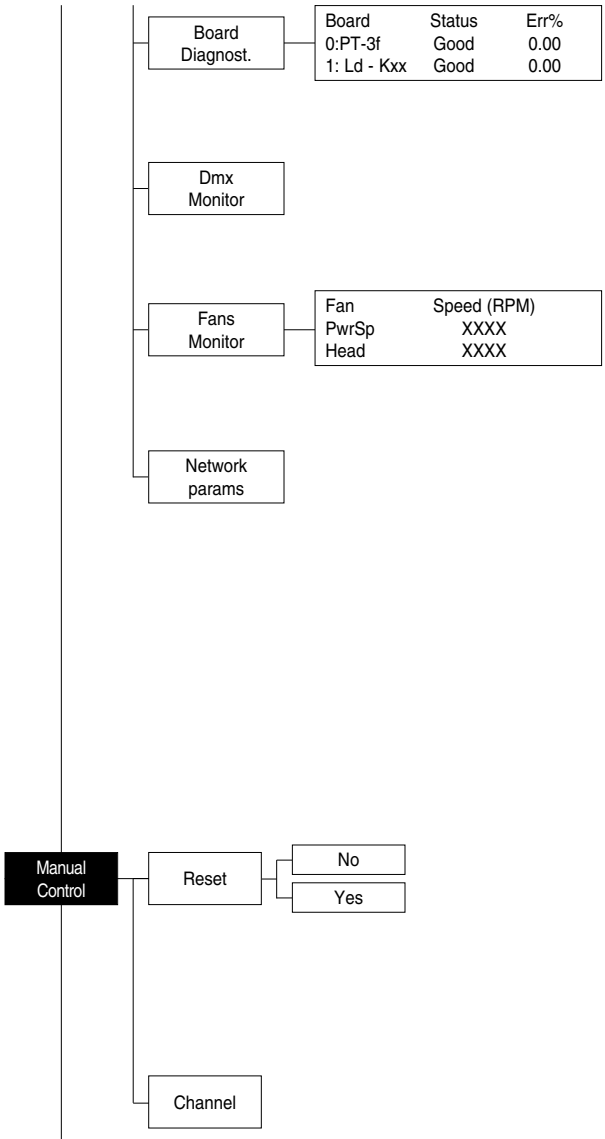
Used for displaying projector operating hours (total and partial).

1) Press (OK) - Hours total and partial appears on the display.
   Total counter
   Counts the number of projector working life hours (from manufacture to date).
   Partial counter
   Counts the number of partial projector working life hours since the last reset to date.
2) Press (OK) to reset partial projector working hours a confirmation message (Are you sure?) appears on the display.
3) Select YES to reset partial projectors counter or NO to keep the current setting and return to the top menu level.

SYSTEM VERSION

Used for displaying the software and hardware version of each board installed in the projector.

CPU brd (CPU board)
0: PT-3f (Scheda Pan / Tilt)
1: Ld - Kxx (Scheda LED)



BOARD DIAGNOSTIC

Used for displaying the status error of each board installed in the projector:
0: PT-3f (Scheda Pan / Tilt)
1: Ld - Kxx (Scheda LED)

DMX MONITOR

Used for displaying the projector DMX channel level in bit (Val) and in percentage (Perc).

FANS MONITOR

Used for displaying the speed of each fan installed in the projector:
PwrSp (fan PSU)
Head (fan head)

NETWORK PARAMS

Allows the "Network" parameters of the projector to be displayed or:

IP address: Internet Protocol address (two projectors must not have the same IP address)

IP mask: 255.0.0.0

Mac address: Media Access Control: the projector's Ethernet Address

MANUAL CONTROL

RESET

Used for resetting the projector.

1) Press OK to reset the projectors, a confirmation message (Are you sure ?) appears on the display.
2) Select YES to starting reset the fixture or NO to keep the current setting and return to the top menu level.

CHANNEL

Used for setting channel levels from the projector control panel.

1) Press OK - the first channel appears on the display.
2) Use the UP ▲ and DOWN ▼ keys to select the required channel:
3) Press OK and use the UP ▲ and DOWN ▼ keys to select the required DMX level (value between 0 and 255).
4) Press LEFT ◀ to return to the top menu level.

TEST MENU

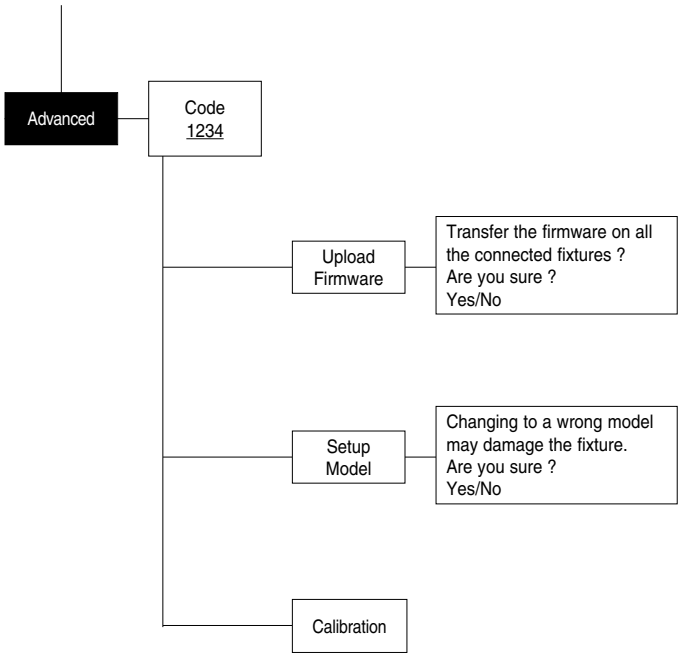
TEST

Allows you to check the proper functioning of effects.

1) Press OK to return to the top menu level.
2) Use the UP ▲ and DOWN ▼ keys to select the required test.
3) Press OK to confirm the selection or LEFT ◀ to keep current settings.

Test sequence:
Pan - Tilt effects (Pan & Tilt)
Colour effects (CMY / CTO / Colour wheel)
All effects

Continue →



ADVANCED MENU

To enable the "Advanced Menu" set up the "Access code" (1234) using the UP ⏶, DOWN ⏷, RIGHT ⏵ keys.
Press OK - "Menu advanced" appears on the display

UP LOAD FIRMWARE

Allows you to transfer the firmware from 1 fixture to all the connected fixtures.

1) Press OK , a confirmation message appears on the display.
2) Select YES to start the firmware loading or NO to keep the current setting and return to the top menu level

SETUP MODEL

Allows you to change the default model of projector.

1) Press OK a confirmation message appears on the display.
2) Select YES to define the model of projector or NO to keep the current setting and return to the top menu level.

CALIBRATION

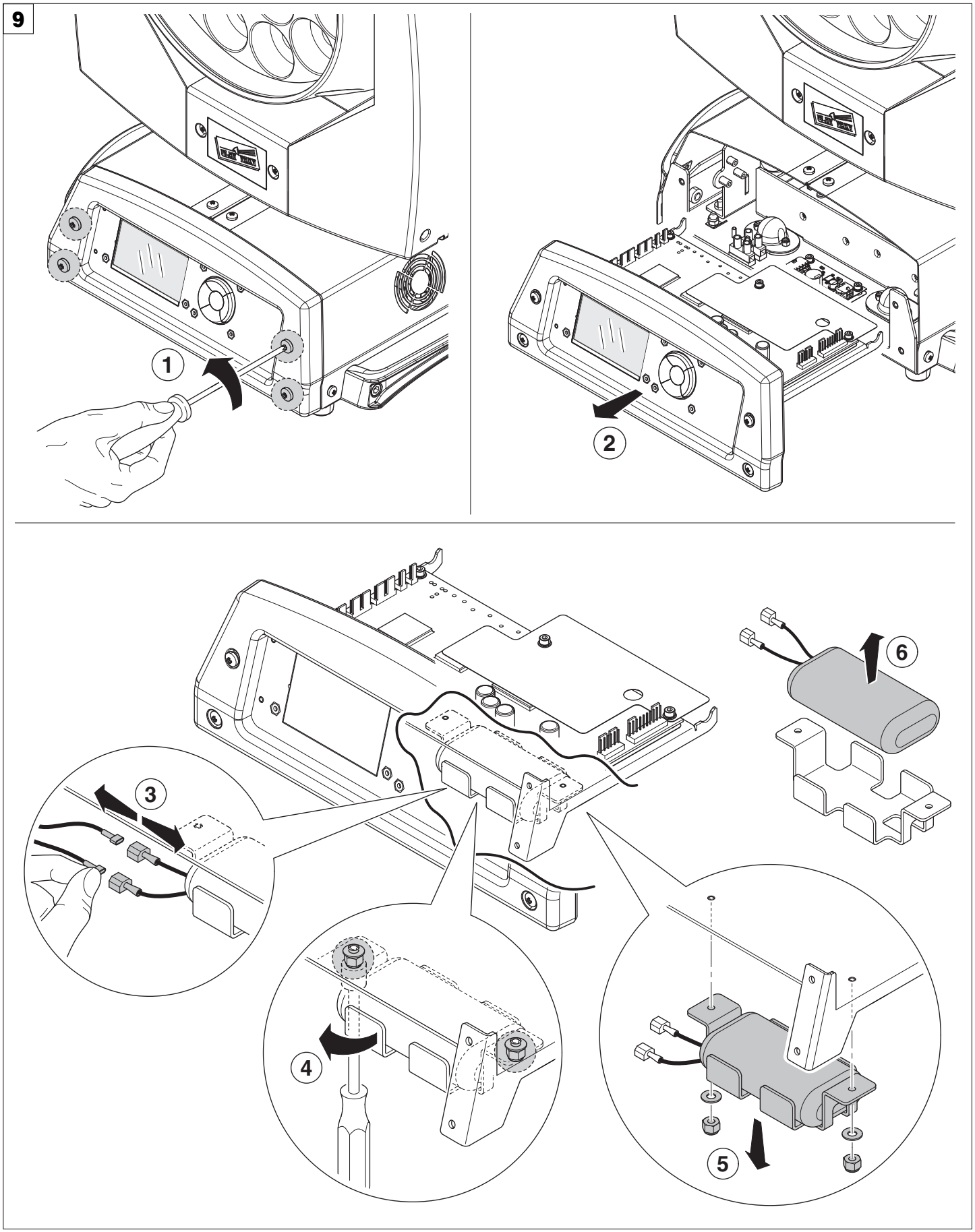
Allows you to adjust effects from the control panel to obtain perfect uniformity between the projectors.

1) Press OK - “channels” appears on the display.
2) Using the UP ⏶ and DOWN ⏷ keys, select the effect you wish to regulate.
3) Press OK and use the RIGHT ⏵, UP ⏶ and DOWN ⏷ buttons to make the adjustment by setting a value between 0 and 255.
4) Press OK to confirm the selection or LEFT ⏴ to keep current settings and return to the top level.

FACTORY DEFAULT

Allows you to restore default values of all channels (128).

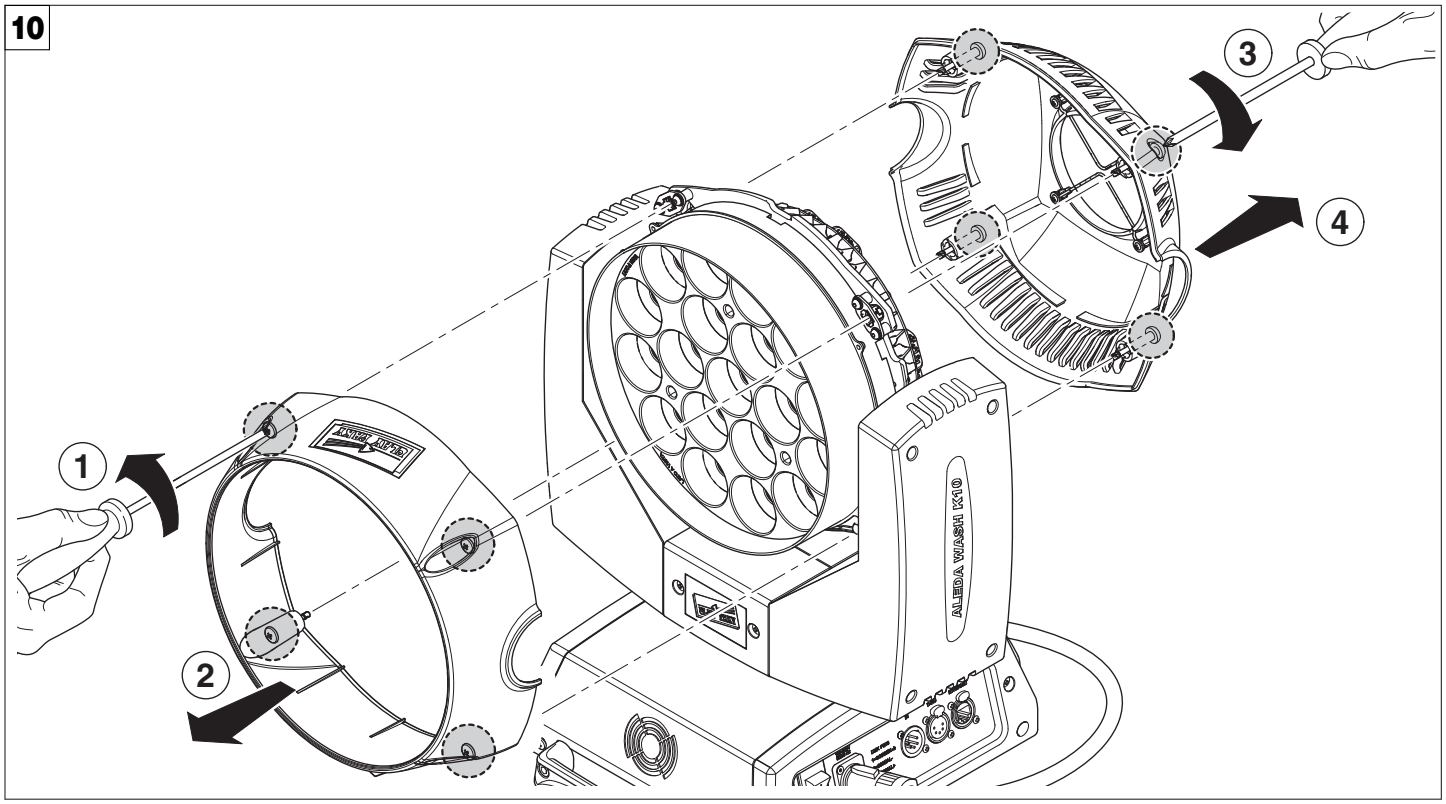
1) Press OK – a confirmation message appears on the display (Reset calibration to factory default ?).
2) Select YES to reset calibration to factory default or NO to keep the current setting and return to the top menu level.



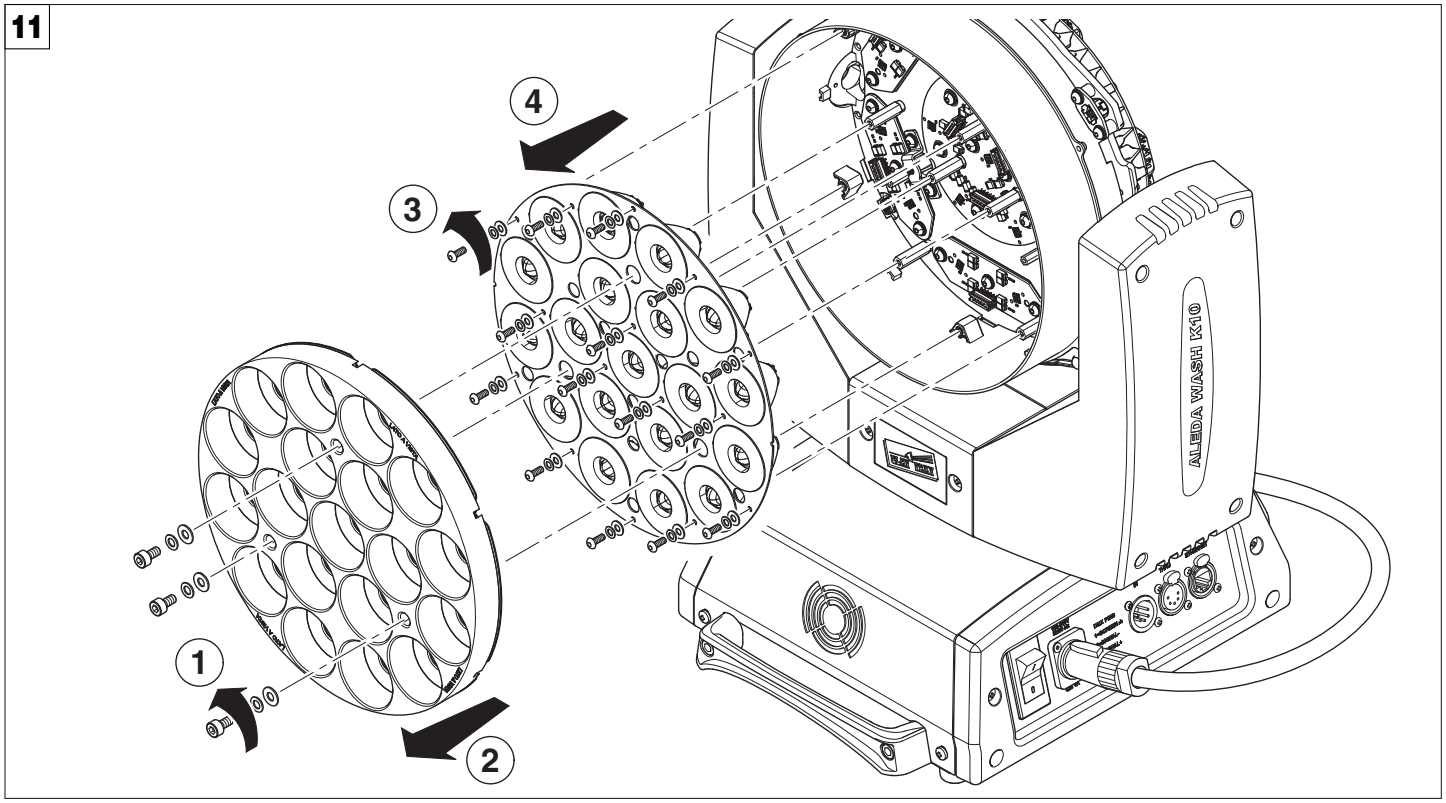
Battery removal - Fig. 9

This product contains a rechargeable lead-acid battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force.

LiFePO4

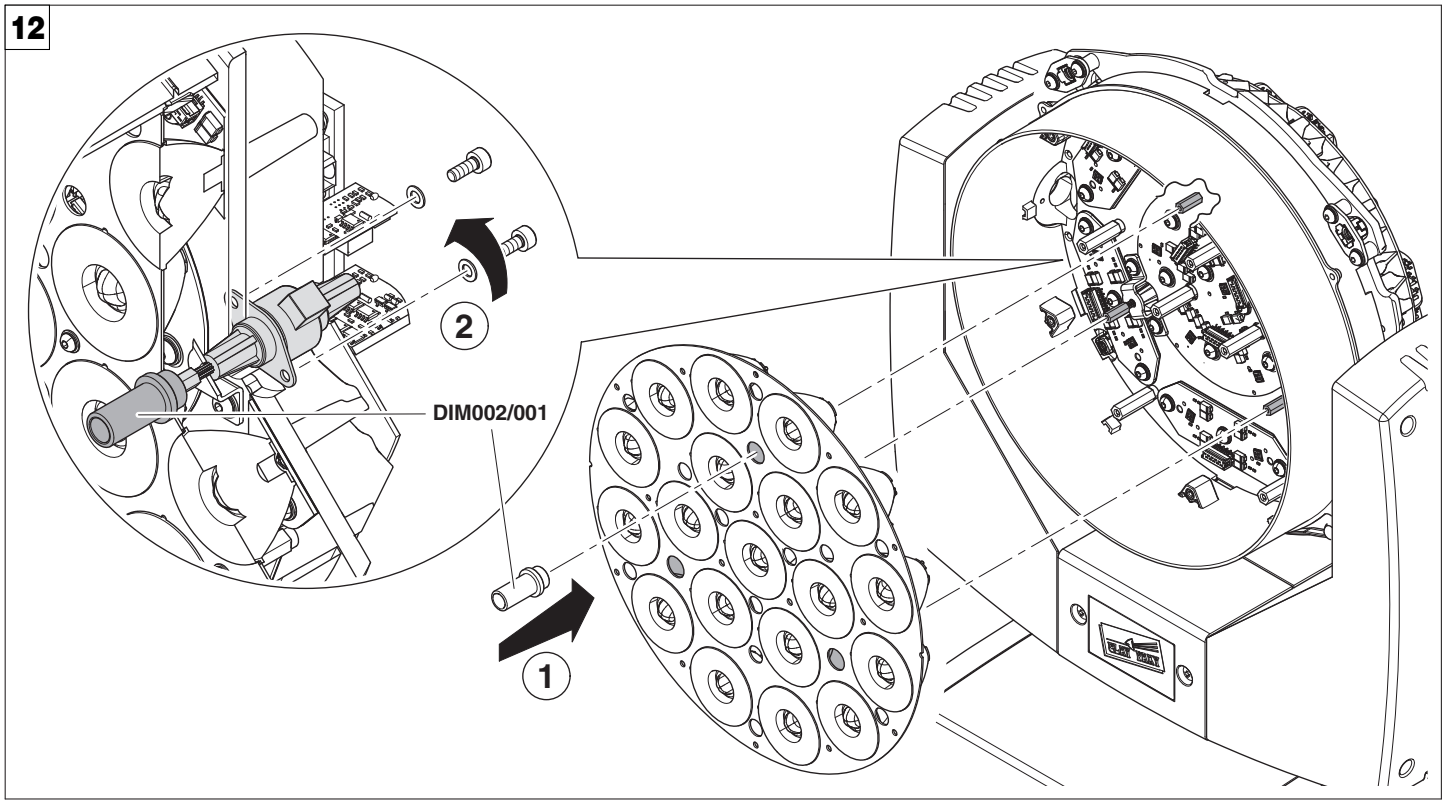


Opening the covers - Fig. 10



Removing/Assembling the lens unit - Fig. 11

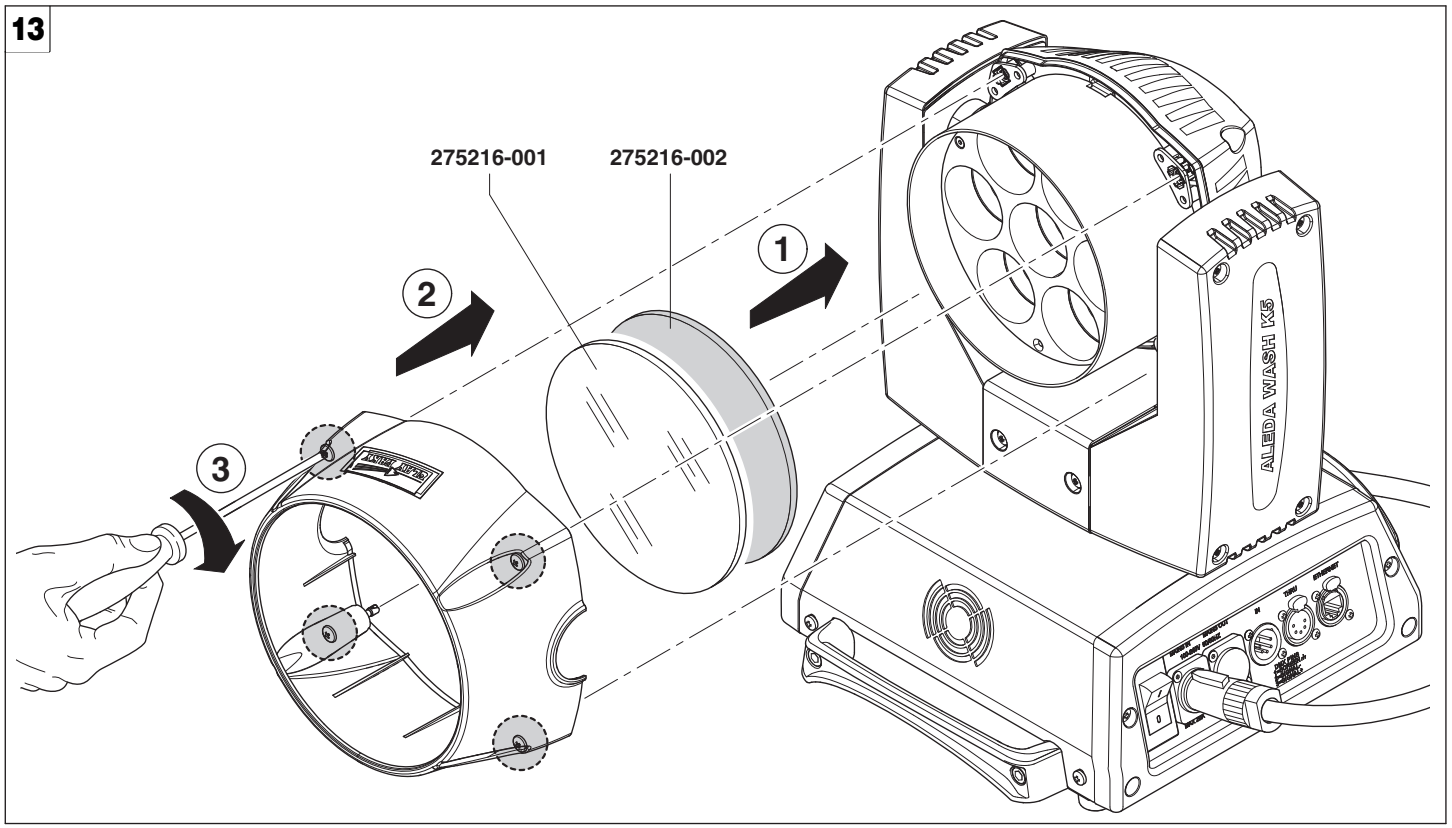
NB: Apply Loctite 222 (p/n COL002) to the threads of the 3 screws (1) before tightening them. A torque of 0.3N is recommended in order to avoid damaging the zoom movement actuators.



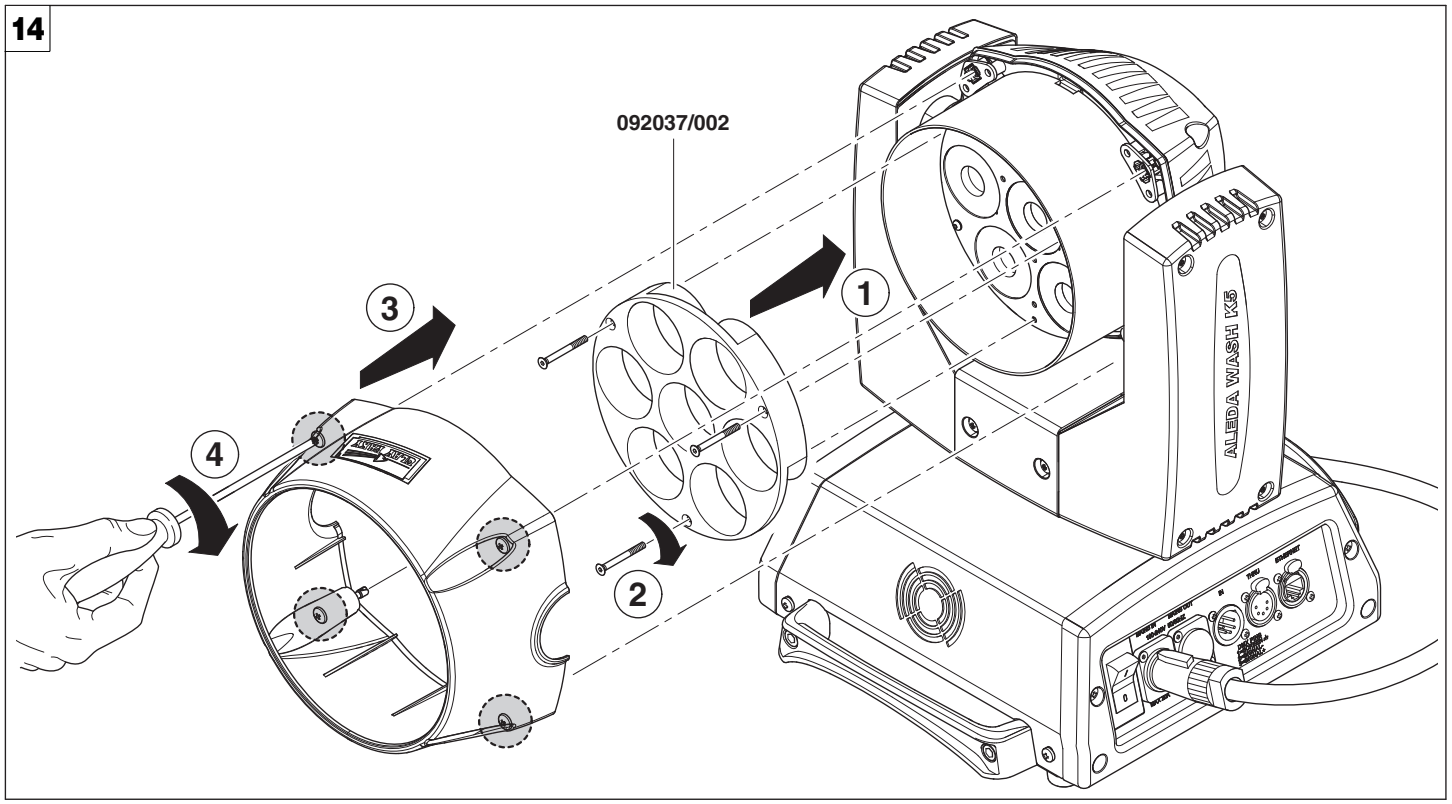
Replacing the line actuator - Fig. 12

NB: It is highly recommended to use the DIM002/001 (1) template whenever it is necessary to replace one of the three Zoom movement line actuators. DIM002/001 ensures the actuator group is centred correctly on the lens plate before tightening the 2 screws (2) that fasten the actuator in place.

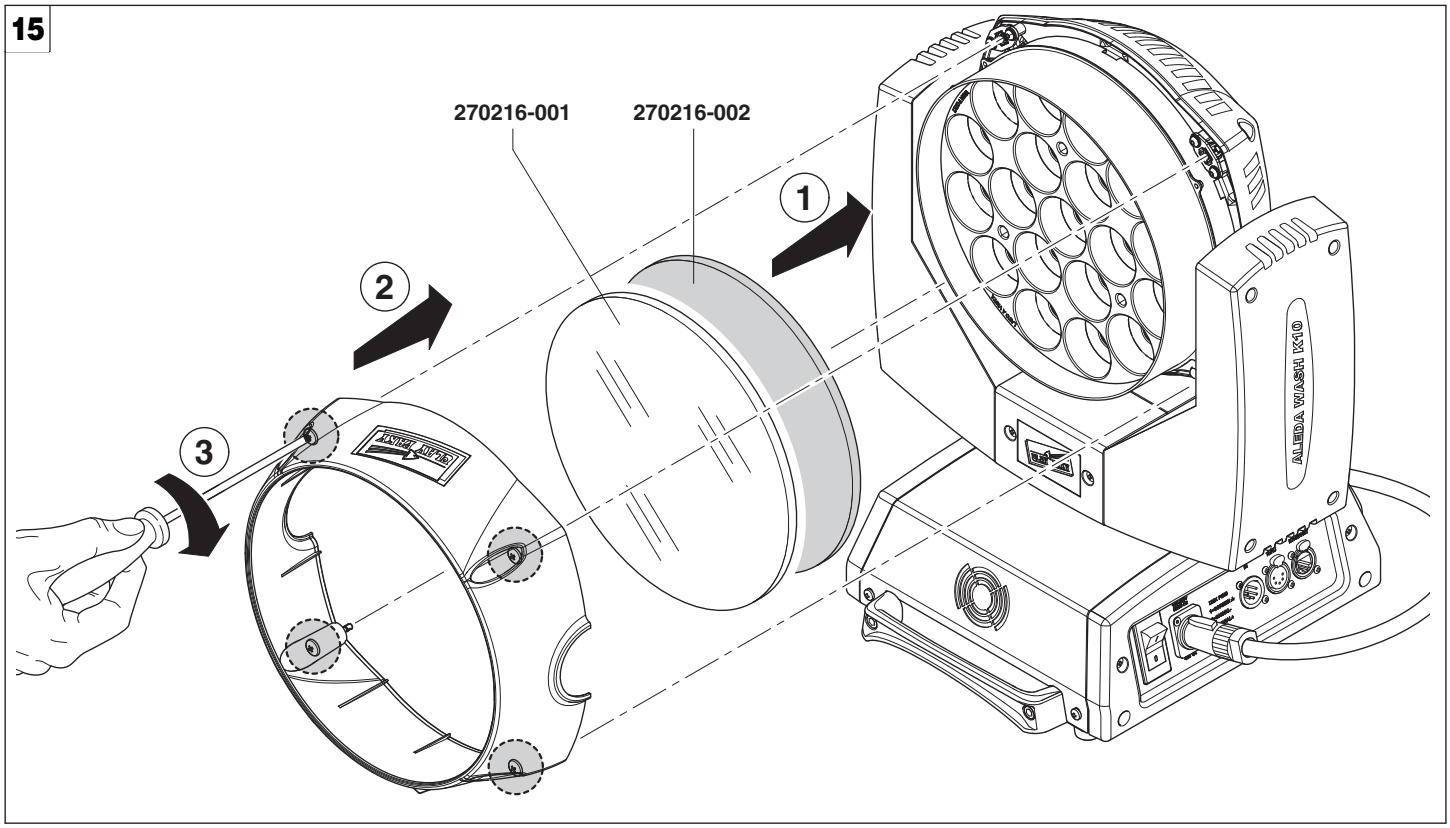
A.LEDA WASH K5



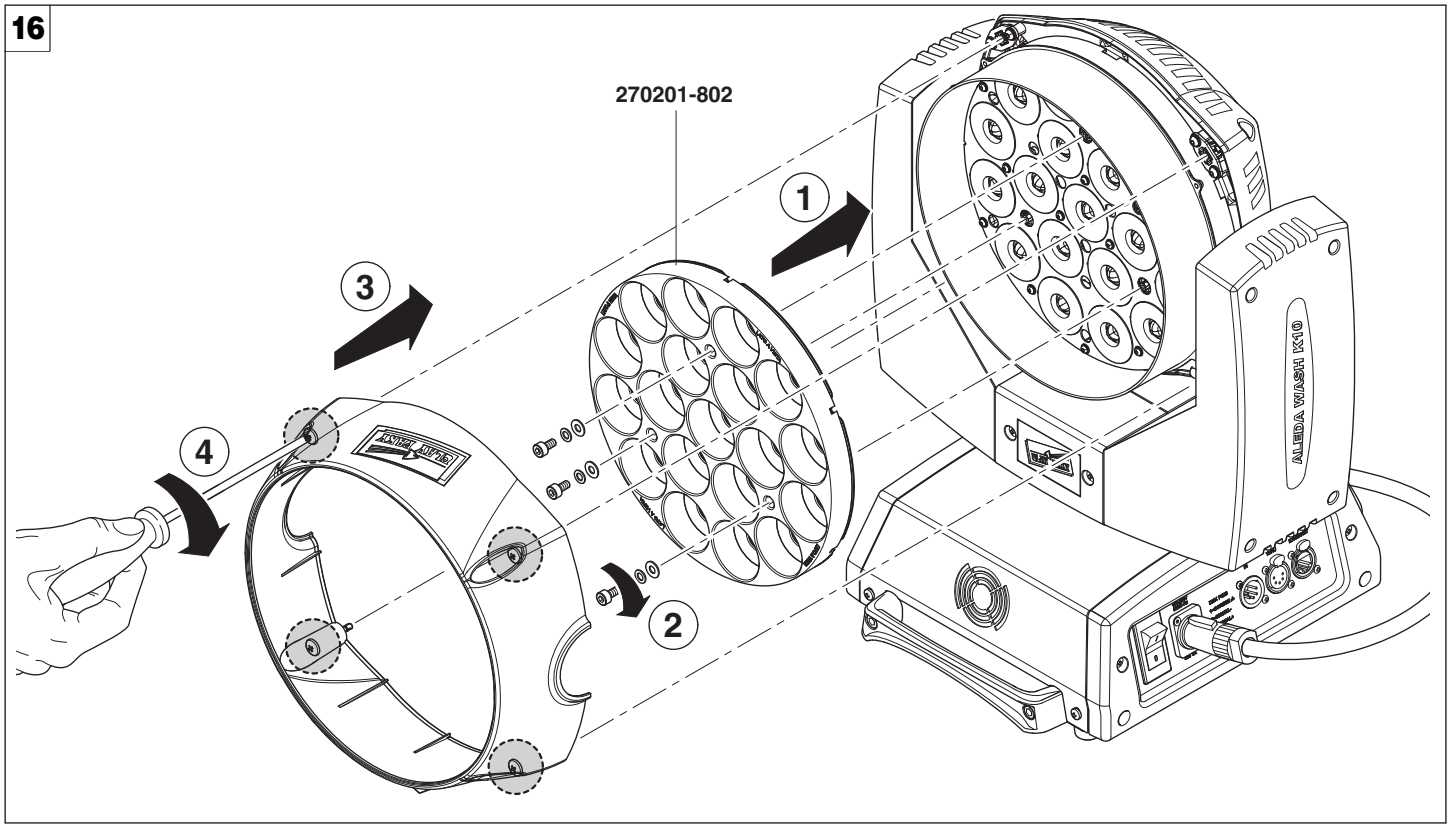
Cover - Fig. 13
275216/001 - Transparent cover
275216/002 - Frosted cover



Transparent mask - Fig. 14

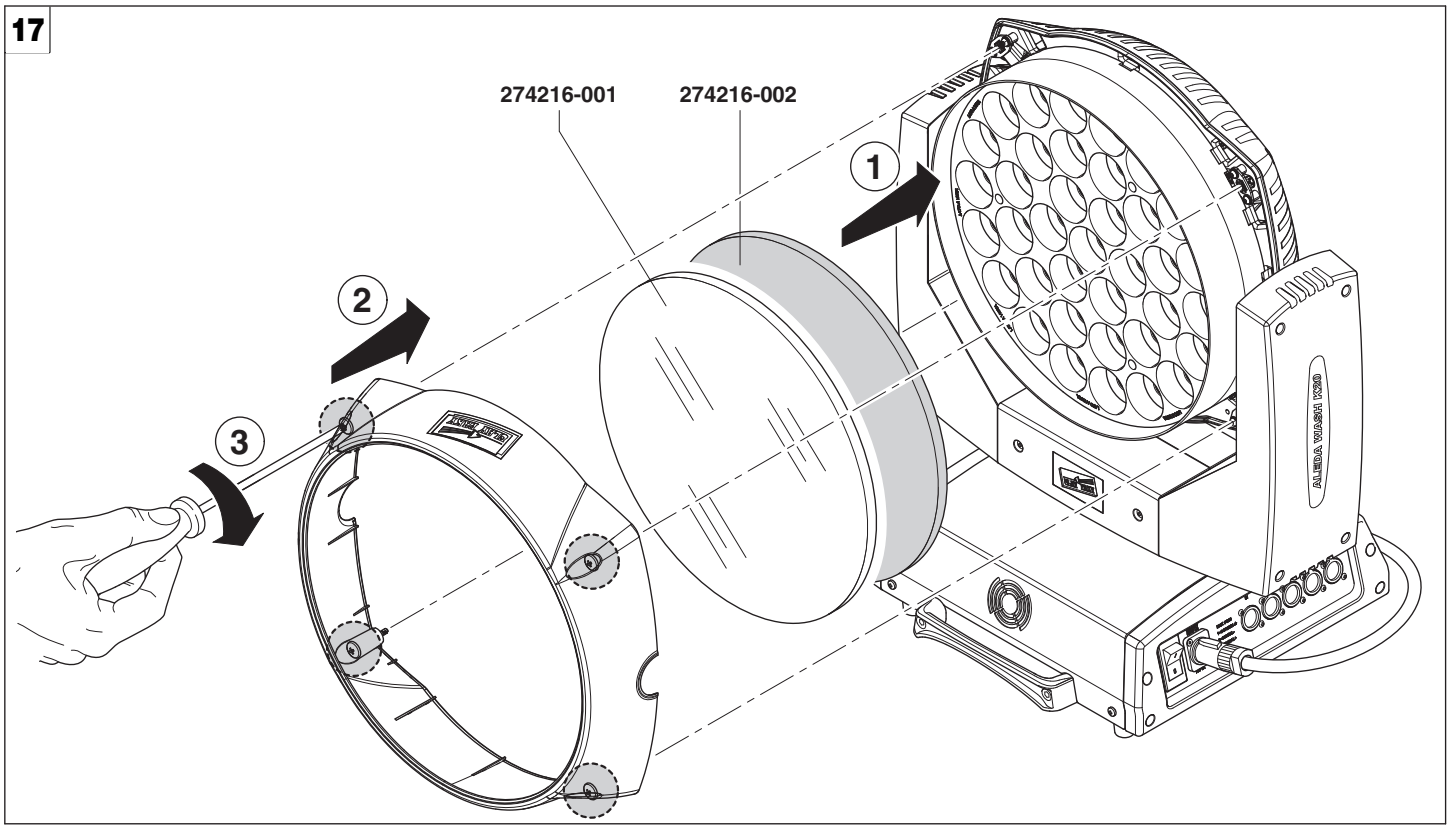


Cover - Fig. 15
270216/001 - Transparent cover
270216/002 - Frosted cover

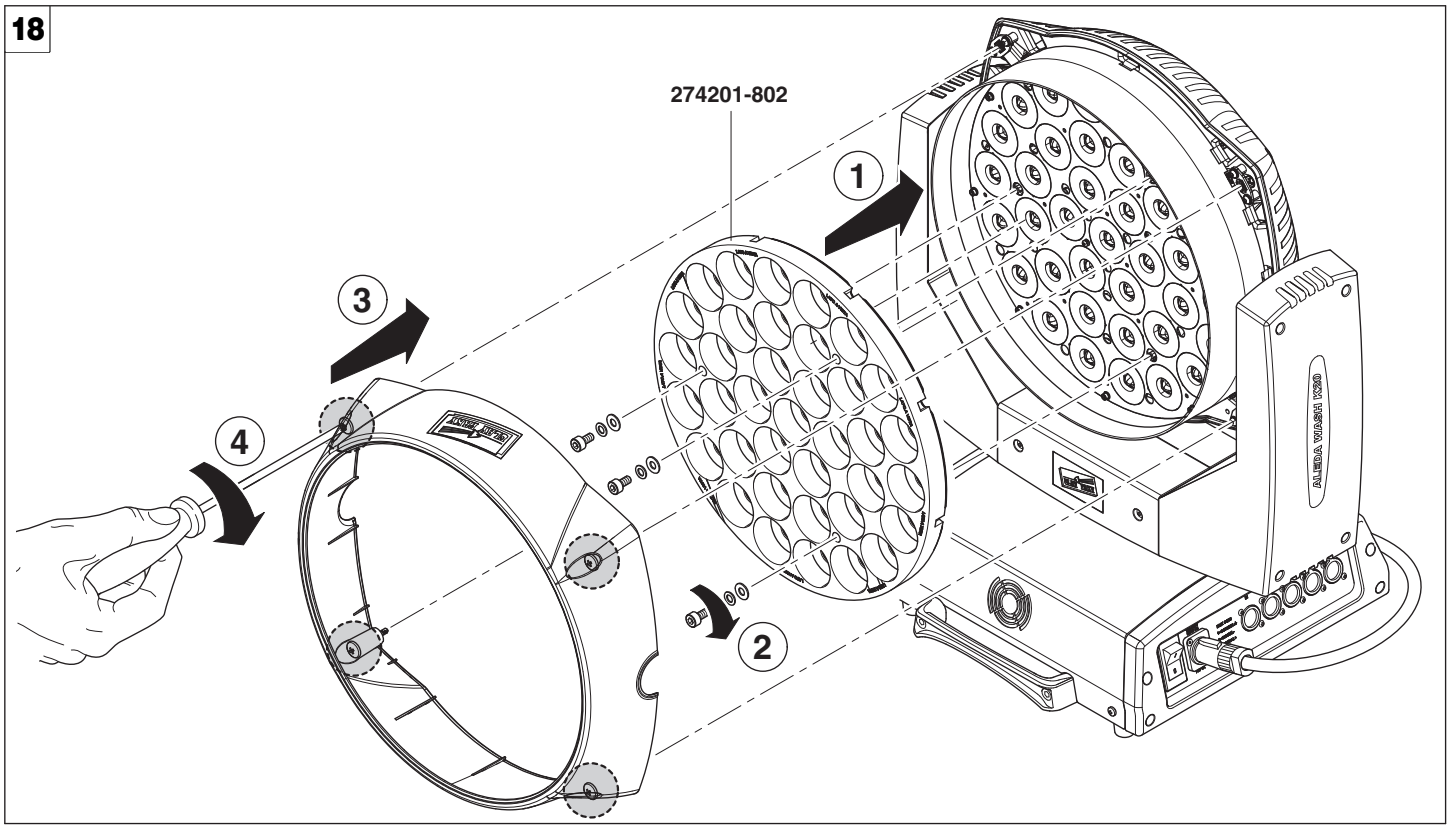


Transparent mask - Fig. 16

Continue →

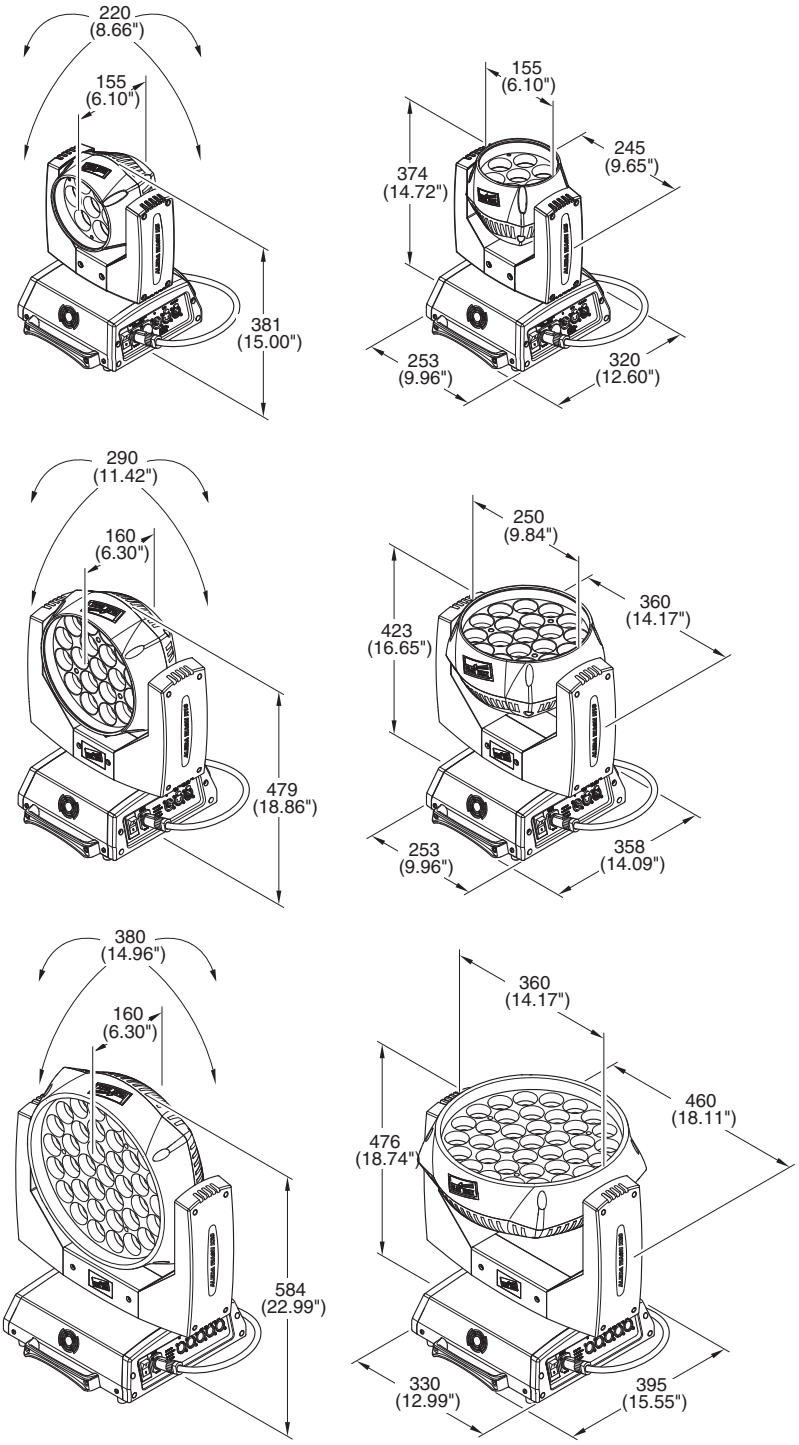


Cover - Fig. 17
275216/001 - Transparent cove
275216/002 - Frosted cover



Transparent mask - Fig. 18

TECHNICAL INFORMATION



Power supplies available
100-240V 50/60Hz

Input power
- K20 - 750VA
- K10 - 450VA
- K5 - 170VA

Max 1800VA (with 11 A.leda Wash K5 connected in parallel)

Lamp
LED Osram Ostar RGBW - 15W

Motors
5 (k10 & k20), 2 (k5) stepper motors, operating with microsteps, totally microprocessor controlled.

Cooling
- High efficiency die-cast aluminium
- Forced ventilation

Inputs
DMX 512

Working position
Functioning in any position.

Movable body
- Movement by means of two stepper motors, controlled by microprocessor.
- Automatic repositioning of PAN and TILT after accidental movement not controlled by control unit.
- Travel:
  - PAN = 540°
  - TILT = 270°

IP20 protection rating
- Protected against the entry of solid bodies larger than 12mm (0.47").
- No protection against the entry of liquids.

CE Marking
In conformity with the European Union Low Voltage Directive 2006/95/CE and Electromagnetic compatibility Directive 2004/108/CE.

Weights
- K5: 7.55kg
- K10: 14.10 kg
- K20: 19.30 kg

CAUSE AND SOLUTION OF PROBLEMS

THE PROJECTOR WILL NOT SWITCH ON	ELECTRONICS NON-OPERATIONAL	DEFECTIVE PROJECTION	REDUCED LUMINOSITY	***POSSIBLE CAUSES***	***CHECKS AND REMEDIES***
●				No mains supply.	Check the power supply voltage.
●			●	LED exhausted or defective.	Replace the LED. (See instructions).
	●			Signal transmission cable faulty or disconnected.	Replace the cables.
	●			Incorrect addressing.	Check addresses (see instructions).
	●			Fault in the electronic circuits.	Call an authorised technician.
		●		Lenses or reflector broken	Call an authorised technician.
		●	●	Dust or grease deposited.	Clean (see instructions).

A.LEDA WASH K5

STANDARD

CHANNEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset

SHAPES

CHANNEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Reserved to special shape functions
21	Reserved to special shape functions
22	Reserved to special shape functions
23	Reserved to special shape functions
24	Reserved to special shape functions
25	Reserved to special shape functions
26	Reserved to special shape functions
27	Reserved to special shape functions
28	Reserved to special shape functions
29	Reserved to special shape functions

EXTENDED

CHANNEL	CHANNEL MODE	
1	Red	
2	Red fine	
3	Green	
4	Green fine	
5	Blue	
6	Blue fine	
7	White	
8	White fine	
9	CTO	
10	Macro colour	
11	Strobe	
12	Dimmer	
13	Dimmer Fine	
14	Pan	
15	Pan Fine	
16	Tilt	
17	Tilt Fine	
18	Function	
19	Reset	
20	RED LED 1	(If RED "channel 1" to 0)
21	GREEN LED 1	(If GREEN "channel 2" to 0)
22	BLUE LED 1	(If BLUE "channel 3" to 0)
23	RED LED 2	(If RED "channel 1" to 0)
24	GREEN LED 2	(If GREEN "channel 2" to 0)
25	BLUE LED 2	(If BLUE "channel 3" to 0)
26	RED LED 3	(If RED "channel 1" to 0)
27	GREEN LED 3	(If GREEN "channel 2" to 0)
28	BLUE LED 3	(If BLUE "channel 3" to 0)
29	RED LED 4	(If RED "channel 1" to 0)
30	GREEN LED 4	(If GREEN "channel 2" to 0)
31	BLUE LED 4	(If BLUE "channel 3" to 0)
32	RED LED 5	(If RED "channel 1" to 0)
33	GREEN LED 5	(If GREEN "channel 2" to 0)
34	BLUE LED 5	(If BLUE "channel 3" to 0)
35	RED LED 6	(If RED "channel 1" to 0)
36	GREEN LED 6	(If GREEN "channel 2" to 0)
37	BLUE LED 6	(If BLUE "channel 3" to 0)
38	RED LED 7	(If RED "channel 1" to 0)
39	GREEN LED 7	(If GREEN "channel 2" to 0)
40	BLUE LED 7	(If BLUE "channel 3" to 0)

A.LEDA WASH K10

STANDARD

CHANNEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom

SHAPES

CHANNEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom
21	Reserved to special shape functions
22	Reserved to special shape functions
23	Reserved to special shape functions
24	Reserved to special shape functions
25	Reserved to special shape functions
26	Reserved to special shape functions
27	Reserved to special shape functions
28	Reserved to special shape functions
29	Reserved to special shape functions
30	Reserved to special shape functions

EXTENDED

CHANNEL	CHANNEL MODE	
1	Red	
2	Red fine	
3	Green	
4	Green fine	
5	Blue	
6	Blue fine	
7	White	
8	White fine	
9	CTO	
10	Macro colour	
11	Strobe	
12	Dimmer	
13	Dimmer Fine	
14	Pan	
15	Pan Fine	
16	Tilt	
17	Tilt Fine	
18	Function	
19	Reset	
20	Zoom	
21	RED LED 1	(If RED "channel 1" to 0)
22	GREEN LED 1	(If GREEN "channel 2" to 0)
23	BLUE LED 1	(If BLUE "channel 3" to 0)
24	RED LED 2	(If RED "channel 1" to 0)
25	GREEN LED 2	(If GREEN "channel 2" to 0)
26	BLUE LED 2	(If BLUE "channel 3" to 0)
27	RED LED 3	(If RED "channel 1" to 0)
28	GREEN LED 3	(If GREEN "channel 2" to 0)
29	BLUE LED 3	(If BLUE "channel 3" to 0)
30	RED LED 4	(If RED "channel 1" to 0)
31	GREEN LED 4	(If GREEN "channel 2" to 0)
32	BLUE LED 4	(If BLUE "channel 3" to 0)
33	RED LED 5	(If RED "channel 1" to 0)
34	GREEN LED 5	(If GREEN "channel 2" to 0)
35	BLUE LED 5	(If BLUE "channel 3" to 0)
36	RED LED 6	(If RED "channel 1" to 0)
37	GREEN LED 6	(If GREEN "channel 2" to 0)
38	BLUE LED 6	(If BLUE "channel 3" to 0)
39	RED LED 7	(If RED "channel 1" to 0)
40	GREEN LED 7	(If GREEN "channel 2" to 0)
41	BLUE LED 7	(If BLUE "channel 3" to 0)
42	RED LED 8	(If RED "channel 1" to 0)
43	GREEN LED 8	(If GREEN "channel 2" to 0)
44	BLUE LED 8	(If BLUE "channel 3" to 0)
45	RED LED 9	(If RED "channel 1" to 0)
46	GREEN LED 9	(If GREEN "channel 2" to 0)
47	BLUE LED 9	(If BLUE "channel 3" to 0)
48	RED LED 10	(If RED "channel 1" to 0)
49	GREEN LED 10	(If GREEN "channel 2" to 0)

CHANNEL	CHANNEL MODE	
50	BLUE LED 10	(If BLUE "channel 3" to 0)
51	RED LED 11	(If RED "channel 1" to 0)
52	GREEN LED 11	(If GREEN "channel 2" to 0)
53	BLUE LED 11	(If BLUE "channel 3" to 0)
54	RED LED 12	(If RED "channel 1" to 0)
55	GREEN LED 12	(If GREEN "channel 2" to 0)
56	BLUE LED 12	(If BLUE "channel 3" to 0)
57	RED LED 13	(If RED "channel 1" to 0)
58	GREEN LED 13	(If GREEN "channel 2" to 0)
59	BLUE LED 13	(If BLUE "channel 3" to 0)
60	RED LED 14	(If RED "channel 1" to 0)
61	GREEN LED 14	(If GREEN "channel 2" to 0)
62	BLUE LED 14	(If BLUE "channel 3" to 0)
63	RED LED 15	(If RED "channel 1" to 0)
64	GREEN LED 15	(If GREEN "channel 2" to 0)
65	BLUE LED 15	(If BLUE "channel 3" to 0)
66	RED LED 16	(If RED "channel 1" to 0)
67	GREEN LED 16	(If GREEN "channel 2" to 0)
68	BLUE LED 16	(If BLUE "channel 3" to 0)
69	RED LED 17	(If RED "channel 1" to 0)
70	GREEN LED 17	(If GREEN "channel 2" to 0)
71	BLUE LED 17	(If BLUE "channel 3" to 0)
72	RED LED 18	(If RED "channel 1" to 0)
73	GREEN LED 18	(If GREEN "channel 2" to 0)
74	BLUE LED 18	(If BLUE "channel 3" to 0)
75	RED LED 19	(If RED "channel 1" to 0)
76	GREEN LED 19	(If GREEN "channel 2" to 0)
77	BLUE LED 19	(If BLUE "channel 3" to 0)

A.LEDA WASH K20

STANDARD

CHAN-NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom

SHAPES

CHAN-NEL	CHANNEL MODE
1	Red
2	Red fine
3	Green
4	Green fine
5	Blue
6	Blue fine
7	White
8	White fine
9	CTO
10	Macro colour
11	Strobe
12	Dimmer
13	Dimmer Fine
14	Pan
15	Pan Fine
16	Tilt
17	Tilt Fine
18	Function
19	Reset
20	Zoom
21	Reserved to special shape functions
22	Reserved to special shape functions
23	Reserved to special shape functions
24	Reserved to special shape functions
25	Reserved to special shape functions
26	Reserved to special shape functions
27	Reserved to special shape functions
28	Reserved to special shape functions
29	Reserved to special shape functions
30	Reserved to special shape functions

EXTENDED

CHAN-NEL	CHANNEL MODE	
1	Red	
2	Red fine	
3	Green	
4	Green fine	
5	Blue	
6	Blue fine	
7	White	
8	White fine	
9	CTO	
10	Macro colour	
11	Strobe	
12	Dimmer	
13	Dimmer Fine	
14	Pan	
15	Pan Fine	
16	Tilt	
17	Tilt Fine	
18	Function	
19	Reset	
20	Zoom	
21	RED LED 1	(If RED "channel 1" to 0)
22	GREEN LED 1	(If GREEN "channel 2" to 0)
23	BLUE LED 1	(If BLUE "channel 3" to 0)
24	RED LED 2	(If RED "channel 1" to 0)
25	GREEN LED 2	(If GREEN "channel 2" to 0)
26	BLUE LED 2	(If BLUE "channel 3" to 0)
27	RED LED 3	(If RED "channel 1" to 0)
28	GREEN LED 3	(If GREEN "channel 2" to 0)
29	BLUE LED 3	(If BLUE "channel 3" to 0)
30	RED LED 4	(If RED "channel 1" to 0)
31	GREEN LED 4	(If GREEN "channel 2" to 0)
32	BLUE LED 4	(If BLUE "channel 3" to 0)
33	RED LED 5	(If RED "channel 1" to 0)
34	GREEN LED 5	(If GREEN "channel 2" to 0)
35	BLUE LED 5	(If BLUE "channel 3" to 0)
36	RED LED 6	(If RED "channel 1" to 0)
37	GREEN LED 6	(If GREEN "channel 2" to 0)
38	BLUE LED 6	(If BLUE "channel 3" to 0)
39	RED LED 7	(If RED "channel 1" to 0)
40	GREEN LED 7	(If GREEN "channel 2" to 0)
41	BLUE LED 7	(If BLUE "channel 3" to 0)
42	RED LED 8	(If RED "channel 1" to 0)
43	GREEN LED 8	(If GREEN "channel 2" to 0)
44	BLUE LED 8	(If BLUE "channel 3" to 0)
45	RED LED 9	(If RED "channel 1" to 0)
46	GREEN LED 9	(If GREEN "channel 2" to 0)
47	BLUE LED 9	(If BLUE "channel 3" to 0)
48	RED LED 10	(If RED "channel 1" to 0)
49	GREEN LED 10	(If GREEN "channel 2" to 0)
50	BLUE LED 10	(If BLUE "channel 3" to 0)
51	RED LED 11	(If RED "channel 1" to 0)
52	GREEN LED 11	(If GREEN "channel 2" to 0)
53	BLUE LED 11	(If BLUE "channel 3" to 0)
54	RED LED 12	(If RED "channel 1" to 0)
55	GREEN LED 12	(If GREEN "channel 2" to 0)
56	BLUE LED 12	(If BLUE "channel 3" to 0)
57	RED LED 13	(If RED "channel 1" to 0)
58	GREEN LED 13	(If GREEN "channel 2" to 0)
59	BLUE LED 13	(If BLUE "channel 3" to 0)
60	RED LED 14	(If RED "channel 1" to 0)
61	GREEN LED 14	(If GREEN "channel 2" to 0)
62	BLUE LED 14	(If BLUE "channel 3" to 0)
63	RED LED 15	(If RED "channel 1" to 0)
64	GREEN LED 15	(If GREEN "channel 2" to 0)
65	BLUE LED 15	(If BLUE "channel 3" to 0)
66	RED LED 16	(If RED "channel 1" to 0)
67	GREEN LED 16	(If GREEN "channel 2" to 0)
68	BLUE LED 16	(If BLUE "channel 3" to 0)
69	RED LED 17	(If RED "channel 1" to 0)
70	GREEN LED 17	(If GREEN "channel 2" to 0)
71	BLUE LED 17	(If BLUE "channel 3" to 0)
72	RED LED 18	(If RED "channel 1" to 0)
73	GREEN LED 18	(If GREEN "channel 2" to 0)
74	BLUE LED 18	(If BLUE "channel 3" to 0)
75	RED LED 19	(If RED "channel 1" to 0)
76	GREEN LED 19	(If GREEN "channel 2" to 0)
77	BLUE LED 19	(If BLUE "channel 3" to 0)
78	RED LED 20	(If RED "channel 1" to 0)
79	GREEN LED 20	(If GREEN "channel 2" to 0)
80	BLUE LED 20	(If BLUE "channel 3" to 0)
81	RED LED 21	(If RED "channel 1" to 0)
82	GREEN LED 21	(If GREEN "channel 2" to 0)
83	BLUE LED 21	(If BLUE "channel 3" to 0)
84	RED LED 22	(If RED "channel 1" to 0)
85	GREEN LED 22	(If GREEN "channel 2" to 0)
86	BLUE LED 22	(If BLUE "channel 3" to 0)
87	RED LED 23	(If RED "channel 1" to 0)
88	GREEN LED 23	(If GREEN "channel 2" to 0)
89	BLUE LED 23	(If BLUE "channel 3" to 0)
90	RED LED 24	(If RED "channel 1" to 0)
91	GREEN LED 24	(If GREEN "channel 2" to 0)
92	BLUE LED 24	(If BLUE "channel 3" to 0)
93	RED LED 25	(If RED "channel 1" to 0)
94	GREEN LED 25	(If GREEN "channel 2" to 0)
95	BLUE LED 25	(If BLUE "channel 3" to 0)
96	RED LED 26	(If RED "channel 1" to 0)
97	GREEN LED 26	(If GREEN "channel 2" to 0)
98	BLUE LED 26	(If BLUE "channel 3" to 0)
99	RED LED 27	(If RED "channel 1" to 0)
100	GREEN LED 27	(If GREEN "channel 2" to 0)
101	BLUE LED 27	(If BLUE "channel 3" to 0)
102	RED LED 28	(If RED "channel 1" to 0)
103	GREEN LED 28	(If GREEN "channel 2" to 0)
104	BLUE LED 28	(If BLUE "channel 3" to 0)
105	RED LED 29	(If RED "channel 1" to 0)
106	GREEN LED 29	(If GREEN "channel 2" to 0)
107	BLUE LED 29	(If BLUE "channel 3" to 0)
108	RED LED 30	(If RED "channel 1" to 0)
109	GREEN LED 30	(If GREEN "channel 2" to 0)
110	BLUE LED 30	(If BLUE "channel 3" to 0)
111	RED LED 31	(If RED "channel 1" to 0)
112	GREEN LED 31	(If GREEN "channel 2" to 0)
113	BLUE LED 31	(If BLUE "channel 3" to 0)
114	RED LED 32	(If RED "channel 1" to 0)
115	GREEN LED 32	(If GREEN "channel 2" to 0)
116	BLUE LED 32	(If BLUE "channel 3" to 0)
117	RED LED 33	(If RED "channel 1" to 0)
118	GREEN LED 33	(If GREEN "channel 2" to 0)
119	BLUE LED 33	(If BLUE "channel 3" to 0)
120	RED LED 34	(If RED "channel 1" to 0)
121	GREEN LED 34	(If GREEN "channel 2" to 0)
122	BLUE LED 34	(If BLUE "channel 3" to 0)
123	RED LED 35	(If RED "channel 1" to 0)
124	GREEN LED 35	(If GREEN "channel 2" to 0)
125	BLUE LED 35	(If BLUE "channel 3" to 0)
126	RED LED 36	(If RED "channel 1" to 0)
127	GREEN LED 36	(If GREEN "channel 2" to 0)
128	BLUE LED 36	(If BLUE "channel 3" to 0)
129	RED LED 37	(If RED "channel 1" to 0)
130	GREEN LED 37	(If GREEN "channel 2" to 0)
131	BLUE LED 37	(If BLUE "channel 3" to 0)

NOTE: On conclusion of resetting in case of absence of DMX signal, Pan & Tilt move to the "Home" position (Pan 50% - Tilt 50%) all the others channels stay at 0%.

• RED – GREEN - BLUE - WHITE

BIT	%	EFFECT
255	100	COLOUR INSERTED
0	0.0	COLOUR EXCLUDED

• RED FINE – GREEN FINE – BLUE FINE – WHITE FINE

BIT	%	EFFECT
255	100	
0	0.0	

• C.T.O.

BIT	%	EFFECT
255	100	2700 ° K
238	93,2	3000 ° K
209	82,0	3500 ° K
181	71,0	4000 ° K
152	59,5	4500 ° K
124	48,7	5000 ° K
95	37,0	5500 ° K
67	26,2	6000 ° K
38	14,7	6500 ° K
10	4,0	7000 ° K
0-9	0,0-3,7	CTO OFF

Note: If CTO channel is active, the WHITE channel is disabled.

• MACRO COLOUR

• STOP / STROBE

BIT	%	EFFECT
252 - 255	98.7 - 100	OPEN
239 - 251	93.7 - 98.2	RANDOM FAST STROBE
226 - 238	88.7 - 93.2	RANDOM MEDIUM STROBE
213 - 225	83.7 - 88.2	RANDOM SLOW STROBE
208 - 212	81.7 - 83.2	OPEN
207	81.2	FAST PULSATION
108	42.5	SLOW PULSATION
104 - 107	41.0 - 42.0	OPEN
103	40.5	FAST STROBE (12 flash/sec)
4	1.7	SLOW STROBE (1 flash/sec)
0 - 3	0.0 - 1.2	CLOSED

• DIMMER

BIT	%	EFFECT
255	100	FULL LIGHT
0	0.0	NO LIGHT

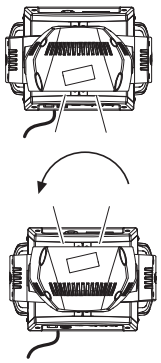
• DIMMER FINE

BIT	%	EFFECT
255	100	
0	0.0	

Continue ➔

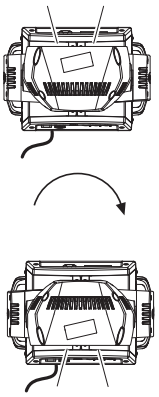
• PAN

Operation with option InvertPan ⇕ Off
(Tilt conventionally represented at 14% and option Invert Tilt ⇕ Off)



BIT	%
255	100
0	0.0

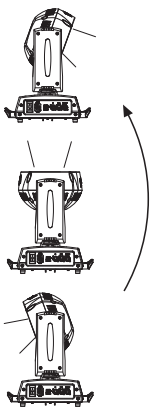
Operation with option InvertPan ⇕ On
(Tilt conventionally represented at 14% and option Invert Tilt ⇕ Off)



BIT	%
255	100
0	0.0

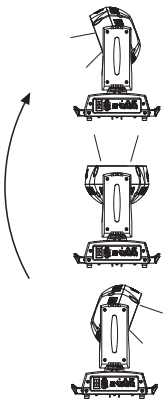
• TILT

Operation with option InvertPan ⇕ Off
(Tilt conventionally represented at 14% and option Invert Tilt ⇕ Off)



BIT	%
255	100
0	0.0

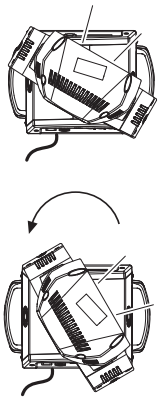
Operation with option InvertPan ⇕ On
(Tilt conventionally represented at 14% and option Invert Tilt ⇕ Off)



BIT	%
255	100
0	0.0

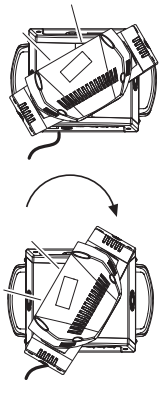
• PAN FINE

Operation with option InvertPan ⇕ Off
(Tilt conventionally represented at 14% and option Invert Tilt ⇕ Off)



BIT	%
255	100
0	0.0

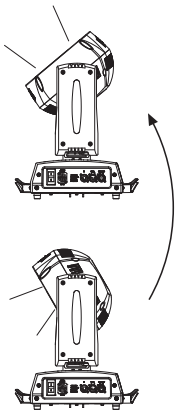
Operation with option InvertPan ⇕ On
(Tilt conventionally represented at 14% and option Invert Tilt ⇕ Off)



BIT	%
255	100
0	0.0

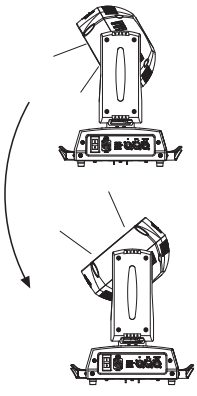
• TILT FINE

Operation with option InvertPan ⇕ Off
(Tilt conventionally represented at 14% and option Invert Tilt ⇕ Off)



BIT	%
255	100
0	0.0

Operation with option InvertPan ⇕ On
(Tilt conventionally represented at 14% and option Invert Tilt ⇕ Off)



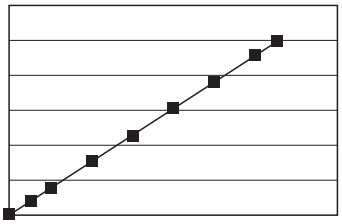
BIT	%
255	100
0	0.0

• FUNCTION

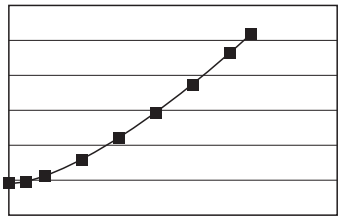
BIT	%	EFFECT
255	100	
		UNUSED RANGE
83	32,5	
78 - 82	30,5 - 32,0	RGB GAMMA 2,00
73 - 77	28,7 - 30,0	RGB GAMMA 1,75
68 - 72	26,7 - 28,2	RGB GAMMA 1,50 (Default)
63 - 67	24,7 - 26,2	RGB GAMMA 1,25
58 - 62	23,0 - 24,2	RGB GAMMA 1,00
53 - 57	21,0 - 22,5	DIMMER CURVE 4 - S
48 - 52	18,7 - 20,5	DIMMER CURVE 3 - GAMMA 2,0
43 - 47	16,7 - 18,2	DIMMER CURVE 2 - GAMMA 1,5 (Default)
38 - 42	14,7 - 16,2	DIMMER CURVE 1 - GAMMA 1 LINEAR
25 - 37	9,7 - 14,2	NORMAL PAN & TILT
12 - 24	4,7 - 9,5	FAST PAN & TILT (Default)
0 - 11	0,0 - 4,2	UNUSED RANGE

The functions are actived passing through the "unused range" and staying 5 seconds in necessary level

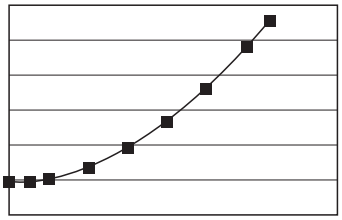
DIMMER CURVE 1 - GAMMA 1 LINEAR



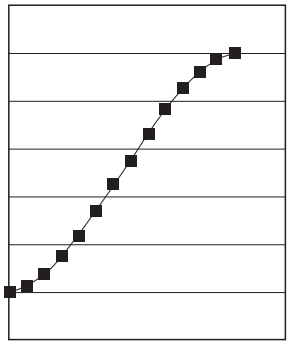
DIMMER CURVE 2 - GAMMA 1,5



DIMMER CURVE 3 - GAMMA 2,0



DIMMER CURVE 4 - S



• RESET

BIT	%	EFFECT
255	100	COMPLETE RESET
		Complete reset is activated passing throug the unused range and staying 5 seconds in complete reset levels.
128	50.0	COMPLETE RESET
127	49.7	PAN / TILT RESET
		Pan / Tilt reset is activated passing throug the unused range and staying 5 seconds in Pan / Tilt reset levels.
77	30.0	PAN / TILT RESET
76	29.7	ZOOM RESET
		Effects reset is activated passing throug the unused range and staying 5 seconds in Effects reset levels.
26	10.0	ZOOM RESET
25	9.7	UNUSED RANGE
0	0.0	

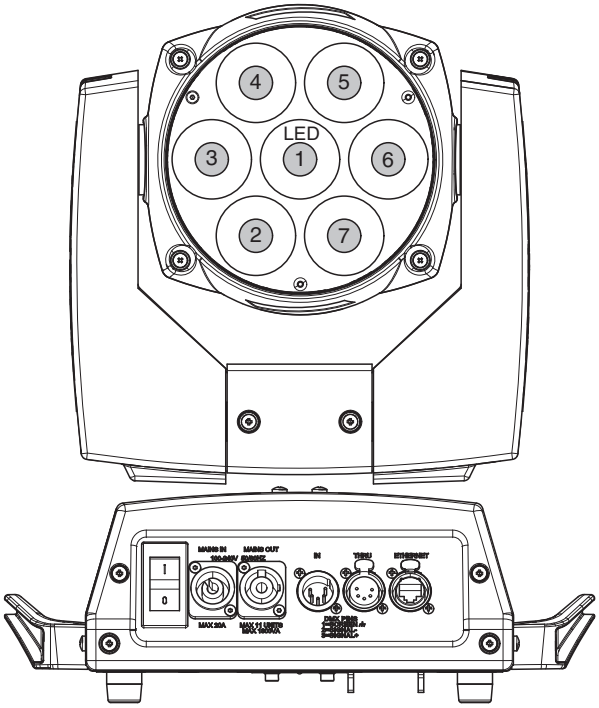
• ZOOM

BIT	%	EFFECT
255	100	WIDE BEAM
0	0.0	NARROW BEAM

Continue ➔

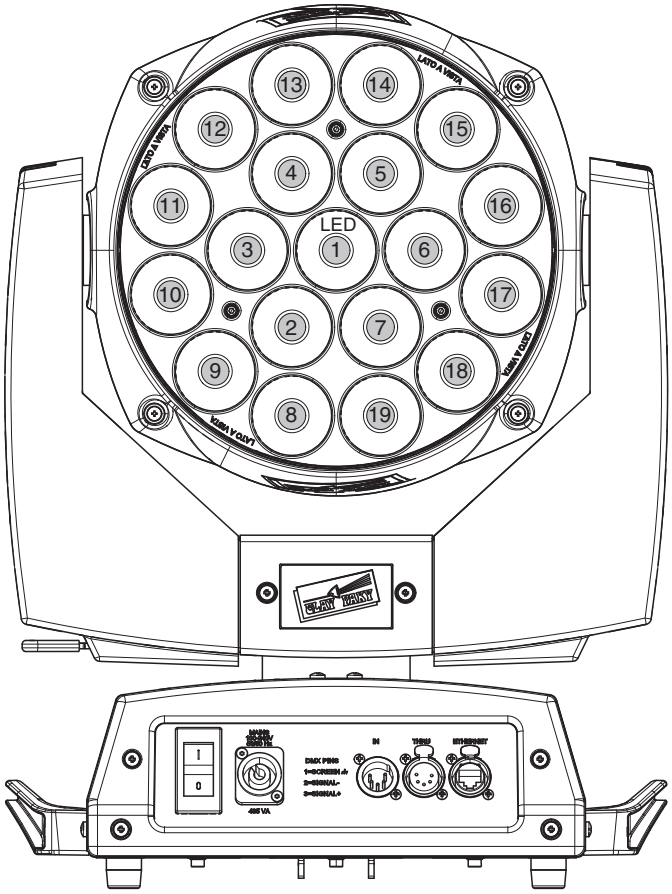
A.LEDA WASH K5

TILT: channel 16 at 80%



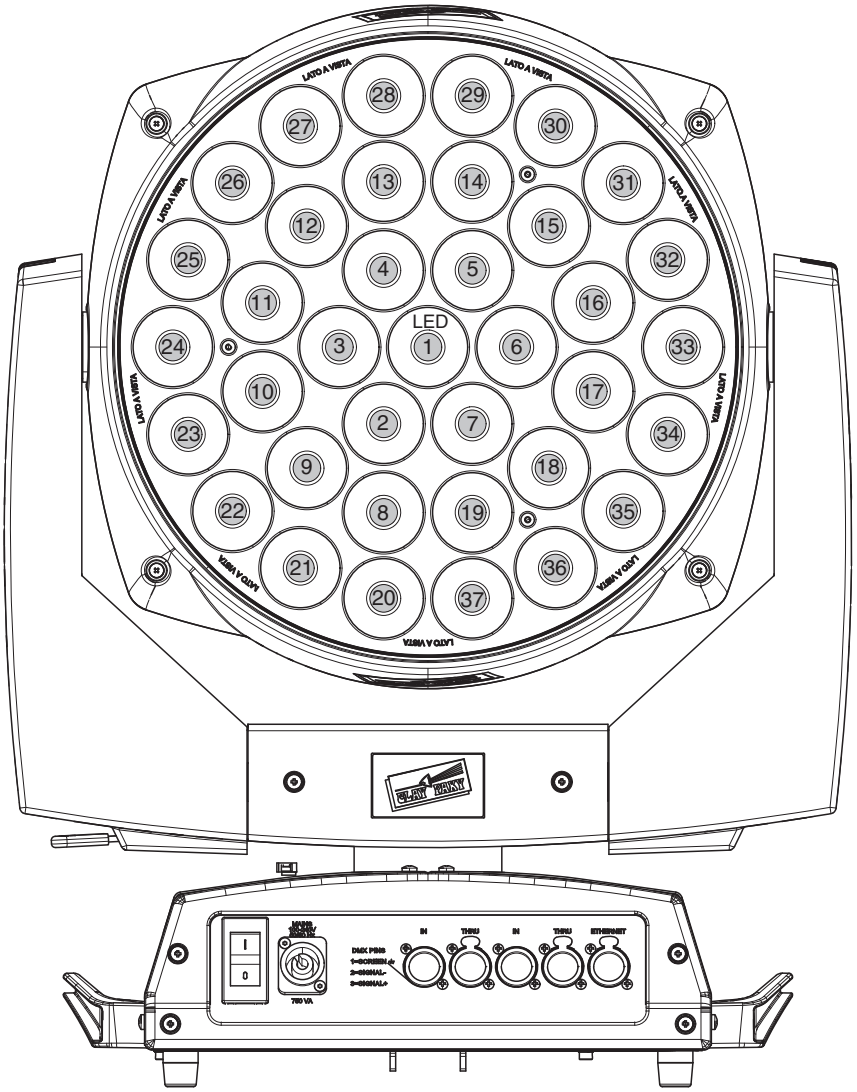
A.LEDA WASH K10

TILT: channel 16 at 80%



A.LEDA WASH K20

TILT: channel 16 at 80%



TIMING CHANNELS

	Timing Channel	Channel function
	Pan - Tilt time	Pan - Tilt - (Pan fine - Tilt fine)
	Colour time	CMY - CTO
	Beam time	Dimmer - Zoom

TIME TABLE

BIT	Seconds
0	Full
1	0.2
2	0.4
3	0.6
4	0.8
5	1
6	1.2
7	1.4
8	1.6
9	1.8
10	2
11	2.2
12	2.4
13	2.6
14	2.8
15	3
16	3.2
17	3.4
18	3.6
19	3.8
20	4
21	4.2
22	4.4
23	4.6
24	4.8
25	5
26	5.2
27	5.4
28	5.6
29	5.8
30	6
31	6.2
32	6.4
33	6.6
34	6.8
35	7
36	7.2
37	7.4
38	7.6
39	7.8
40	8
41	8.2
42	8.4

BIT	Seconds
43	8.6
44	8.8
45	9
46	9.2
47	9.4
48	9.6
49	9.8
50	10
51	10.2
52	10.4
53	10.6
54	11
55	
56	12
57	
58	13
59	
60	14
61	
62	
63	15
64	
65	16
66	
67	
68	17
69	
70	18
71	
72	
73	19
74	
75	20
76	
77	
78	21
79	
80	
81	22
82	
83	23
84	
85	

BIT	Seconds
86	24
87	
88	25
89	
90	
91	26
92	
93	27
94	
95	
96	28
97	
98	29
99	
100	
101	30
102	
103	
104	31
105	
106	32
107	
108	
109	33
110	
111	34
112	
113	
114	35
115	
116	36
117	
118	
119	37
120	
121	38
122	
123	
124	39
125	
126	
127	40
128	

BIT	Seconds
129	41
130	
131	
132	42
133	
134	43
135	
136	
137	44
138	
139	45
140	
141	
142	46
143	
144	47
145	
146	
147	48
148	
149	49
150	
151	
152	50
153	
154	
155	51
156	
157	52
158	
159	
160	53
161	
162	54
163	
164	
165	55
166	
167	56
168	
169	
170	57
171	

BIT	Seconds
172	58
173	
174	
175	59
176	
177	
178	60
179	
180	65
181	
182	
183	70
184	
185	75
186	
187	
188	80
189	
190	85
191	
192	
193	90
194	
195	95
196	
197	
198	100
199	
200	110
201	
202	
203	120
204	
205	
206	130
207	
208	140
209	
210	
211	150
212	
213	160
214	
215	

BIT	Seconds
216	170
217	
218	180
219	
220	
221	190
222	
223	200
224	
225	
226	210
227	
228	
229	220
230	
231	230
232	
233	
234	240
235	
236	250
237	
238	
239	260
240	
241	270
242	
243	
244	280
245	
246	290
247	
248	
249	300
250	
251	310
252	
253	
254	
255	Follow cue Data

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